

Document 00910

ADDENDUM NO. 1

Date of Addendum: 12/30/15

PROJECT NAME: 60-inch Water Line along Monroe and Rockhill from Airport to Glen Valley

PROJECT NO: WBS No. S-000900-0129-4

BID DATE: January 14, 2016

FROM: J. Timothy Lincoln, P.E., City Engineer  
City of Houston, Department of Public Works and Engineering  
611 Walker Street  
Houston, Texas 77002  
Attn: Arthur C. Morris, P.E., Project Manager

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

#### CHANGE IN BID DATE

The Bid Date for this Project has been changed from January 7, 2016 to January 14, 2016.

Time of day and place for submittal of bid remains the same.

*This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars ( | ) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.*

## CHANGES TO PROJECT MANUAL

### INTRODUCTORY INFORMATION

1. Document 00010 – Table of Contents. Replace entire document.

### BIDDING REQUIREMENTS

2. Document 00210 – Supplementary Instructions to Bidders. Replace entire document.
3. Document 00410 – Bid Form, Part A & B. Replace entire document.

### CONTRACTING REQUIREMENTS

4. Document 00520 – Agreement. Replace entire document.

### SPECIFICATIONS

5. Section 01110 – Summary of Work. Replace entire section. All the attachments (1 thru 12) will remain unchanged.
6. Section 01270S – Measurement and Payment. Replace entire section.

## CHANGES TO DRAWINGS

7. Drawing Sheet 239 – Remove Concrete Traffic Barrier and replace with Low Profile Concrete Traffic Barrier with Safety End Treatment.

END OF ADDENDUM NO. 1

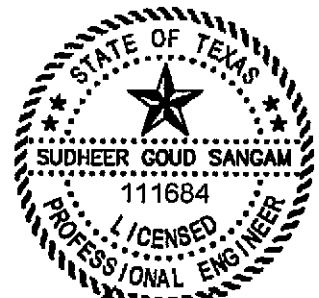
DATED:

*Ravi Kaleyatodi*

Ravi Kaleyatodi, P.E., CPM  
Senior Assistant Director  
Department of Public Works and  
Engineering

*DR For RC for*  
RK:SD:VP:SAA:sdd

END OF DOCUMENT



*12/30/2015*  
Kuo & Associates, Inc.

Texas Firm Registration No. F-4578

Document 00911

NOTICE OF  
ADDENDUM NO. 1

Date of Addendum: 12/30/15

PROJECT NAME: 60-inch Water Line along Monroe and Rockhill from Airport to Glen Valley

PROJECT NO: S-000900-0129-4

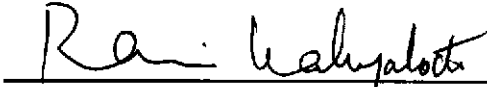
BID DATE: January 14, 2016

FROM: J. Timothy Lincoln, P.E., City Engineer  
City of Houston  
Department of Public Works and Engineering  
611 Walker, 15<sup>th</sup> Floor  
Houston, Texas 77002  
Attn: Arthur C. Morris, P.E., Project Manager

TO: Prospective Bidders

The referenced Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable.

Written questions regarding this Addendum may be submitted to the Project Manager following the procedures specified in Document 00200 – Instructions to Bidders. Immediately notify the City Engineer through the named Project Manager upon finding discrepancies or omissions in the Bid Documents.

  
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Ravi Kaleyatodi, P.E., CPM  
Senior Assistant Director  
Department of Public Works and  
Engineering

END OF DOCUMENT

Document 00010  
**TABLE OF CONTENTS**

NOTE: Bold capitalized Specification Sections are included in the City of Houston Department of Public Works and Engineering Standard Construction Specifications for Wastewater Collection Systems, Water Lines, Storm Drainage, Street Paving, and Traffic located here: [http://documents.publicworks.houstontx.gov/document-center/cat\\_view/88-engineering-and-construction/92-specifications/208-division-02-16-standard-specifications.html](http://documents.publicworks.houstontx.gov/document-center/cat_view/88-engineering-and-construction/92-specifications/208-division-02-16-standard-specifications.html); and are incorporated in Project Manuals by reference as if copied verbatim. Documents listed "for filing" are to be provided by Bidder and are not included in this Project Manual unless indicated for example only. The Document numbers and titles hold places for actual documents to be submitted by Contractor during Bid, post-bid, or construction phase of the Project. Specification Sections marked with an asterisk (\*) are amended by a supplemental specification, printed on blue paper and placed in front of the Specification it amends. Documents in the 200, 300 and 400 series of Division 00, except for Document 00410B – Bid Form, Part B, are not part of the Contract.

<b><u>Doc.</u></b>	<b><u>Document Title</u></b>	<b><u>Doc. Date</u></b>
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**INTRODUCTORY INFORMATION**

00010	Table of Contents .....	08-01-2015
00015	List of Drawings .....	02-01-2004

**BIDDING REQUIREMENTS**

**INSTRUCTIONS TO BIDDERS**

00200	Instructions to Bidders .....	08-01-2015
00210	Supplementary Instructions to Bidders .....	08-01-2015
00220	Request for Bid Information .....	06-11-2004

**INFORMATION AVAILABLE TO BIDDERS**

00320	Geotechnical Information .....	09-02-2005
00340	Environmental Information .....	09-14-2005

**BID FORMS AND SUPPLEMENTS**

00410	Bid Form, Parts A & B .....	08-01-2015
00430	Bidder's Bond (For filing; Example Form) .....	02-01-2004
00450	Bidder's Statement of MWBE/PDBE/DBE Status .....	07-01-2013
00452	Contractor Submission List - Fair Campaign Ordinance .....	04-30-2004
00453	Bidder's Statement of Residency .....	02-01-2004
00454	Affidavit of Non-interest .....	02-01-2004
00455	Affidavit of Ownership or Control .....	09-04-2007
00456	Bidder's Certificate of Compliance with Buy American Program .....	02-01-2004
00457	Conflict of Interest Questionnaire .....	02-28-2006
00458	Bidder's Certificate Regarding Foreign Trade Restriction .....	02-01-2004
00459	Contractor's Statement Regarding Previous Contracts .....	

<b>Doc. No.</b>	<b>Document Title</b>	<b>Doc. Date</b>
	Subject to EEO .....	02-01-2004
00460	(POP-1) Pay or Play Acknowledgement Form .....	07-03-2012
00470	Bidder's MWSBE Participation Plan .....	08-01-2015
00471	Pre-bid Good Faith Efforts .....	08-01-2015
00472	Bidder's Goal Deviation Request .....	08-01-2015

#### **POST-BID PROCEDURES**

00495	Post-bid Procedures .....	08-01-2013
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### **CONTRACTING REQUIREMENTS**

#### **AGREEMENT**

00500	Form of Business .....	02-01-2004
00501	Resolution of Contractor .....	02-01-2010
00520	Agreement .....	07-01-2013
00570	Contractor's Revised MWSBE Participation Plan .....	08-01-2013
00571	Record of Post-Award Good Faith Efforts .....	08-01-2013
00572	Contractor's Request for Plan Deviation .....	08-01-2013

#### **BONDS AND CERTIFICATES**

00600	List of Proposed Subcontractors and Suppliers .....	07-01-2013
00601	Drug Policy Compliance Agreement .....	02-01-2004
00602	Contractor's Drug Free Workplace Policy (For filing)	
00604	History of OSHA Actions and List of On-the-job Injuries .....	02-01-2004
00605	List of Safety Impact Positions .....	02-01-2004
00606	Contractor's Certification of No Safety Impact Positions .....	02-01-2004
00607	Certification Regarding Debarment, Suspension, and Other Responsibility Matters .....	02-01-2004
00610	Performance Bond .....	05-17-2005
00611	Statutory Payment Bond .....	05-17-2005
00612	One-year Maintenance Bond .....	05-17-2005
00613	One-year Surface Correction Bond .....	05-17-2005
00620	Affidavit of Insurance (with attached Certificates of Insurance) .....	02-01-2004
00622	Name and Qualifications of Proposed Superintendent (For filing)	
00624	Affidavit of Compliance with Affirmative Action Program .....	02-01-2004
00630	(POP-2) Certification of Compliance with Pay or Play Program .....	07-03-2012
00631	(POP-3) City of Houston Pay or Play Program – List of Subcontractors .....	07-03-2012
00633	Equal Employment Opportunity–Certification By Material Suppliers	02-01-2010
00642	Monthly Subcontractor Payment Reporting Form .....	02-01-2010
00646	Payment Notification Explanation of Withholding .....	02-01-2010

<b><u>Doc. No.</u></b>	<b><u>Document Title</u></b>	<b><u>Doc. Date</u></b>
<b>GENERAL CONDITIONS</b>		
00700	General Conditions.....	08-15-2015
<b>SUPPLEMENTARY CONDITIONS</b>		
00800	Supplementary Conditions .....	08-15-2015
00805	Equal Employment Opportunity Program Requirements .....	05-01-2012
00808	Requirements for the City of Houston Program for Minority, Women, and Small Business Enterprises (MWSBE), and Persons with Disabilities Business Enterprises (PDBE) Program....	08-01-2013
00820	Wage Scale for Engineering Construction .....	02-01-2015
00830	Trench Safety Geotechnical Information .....	02-01-2004
00840	Pay or Play Program Requirements.....	07-03-2012
<b>ADDENDA AND MODIFICATIONS</b>		
00910	Addendum .....	02-01-2004
00911	Notice of Addendum.....	02-01-2004
00931	Request for Information .....	02-01-2004
<b>SPECIFICATIONS</b>		
<b>DIVISION 1 - GENERAL REQUIREMENTS</b>		
01110	Summary of Work.....	06-27-2005
01145	Use of Premises .....	01-01-2011
01255	Change Order Procedures .....	08-01-2003
01270S	Measurement and Payment .....	08-17-2015
*01270	Measurement and Payment .....	08-01-2003
01292	Schedule of Values.....	08-01-2003
01312	Coordination and Meetings.....	08-01-2003
01321	Construction Photographs .....	08-01-2003
01326	Construction Schedule (Bar Chart).....	08-01-2003
01330	Submittal Procedures .....	08-01-2003
01340	Shop Drawings, Product Data, and Samples .....	08-01-2003
01351	Environmental Safety and Worker Protection.....	01-01-2011
01410	TPDES Requirements (with Attachments).....	02-01-2011
01422	Reference Standards.....	08-01-2003
01450	Contractor's Quality Control.....	08-01-2003
01452	Inspection Services .....	10-27-2004
01454S	Testing Laboratory Services.....	08-17-2015
*01454	Testing Laboratory Services .....	08-01-2003
01502	Mobilization .....	08-01-2008
01504	Temporary Facilities and Controls .....	01-01-2011
01506	Diversion Pumping .....	08-01-2003

<b>Doc. No.</b>	<b>Document Title</b>	<b>Doc. Date</b>
01520	Temporary Field Office .....	02-08-2012
01554	Traffic Control and Street Signs .....	07-01-2012
01555S	<i>Traffic Control and Regulation</i> .....	10-04-2013
*01555	Traffic Control and Regulation .....	01-01-2011
01562	Tree and Plant Protection .....	01-01-2011
01570	Storm Water Pollution Control .....	01-26-2012
01575	Stabilized Construction Access .....	02-01-2011
01576	Waste Material Disposal .....	08-01-2003
01578	Control of Ground and Surface Water .....	01-01-2011
01580	Project Identification Signs .....	08-01-2003
01581	Excavation in Public Way Permit Signs .....	08-01-2003
01610	Basic Product Requirements .....	01-01-2011
01630	Product Substitution Procedures .....	08-01-2003
01725	Field Surveying .....	01-01-2011
01731	Cutting and Patching .....	01-01-2011
01732	Procedure for Water Valve Assistance (with Attachments) .....	08-01-2003
01740	Site Restoration .....	08-01-2003
01755	Starting Systems .....	08-01-2003
01770	Closeout Procedures .....	08-01-2003
01782(LD)	Operations and Maintenance Personnel Instruction .....	08-01-1995
01785	Project Record Documents .....	08-01-2003
<b>DIVISION 2 - SITE WORK</b>		
02081	<b>CAST-IN-PLACE CONCRETE MANHOLES</b> .....	01-01-2011
02082S	<i>Precast Concrete Manholes</i> .....	11-08-2012
*02082	<b>PRECAST CONCRETE MANHOLES</b> .....	01-01-2011
02083	<b>FIBERGLASS MANHOLES</b> .....	01-01-2011
02084	<b>FRAMES, GRATES, RINGS, AND COVERS</b> .....	08-01-2008
02085	<b>VALVE BOXES, METER BOXES, AND METER VAULTS</b> .....	01-01-2011
02086	<b>ADJUSTING MANHOLES, INLETS, AND VALVE BOXES TO GRADE</b> .....	01-01-2011
02087	<b>BRICK MANHOLE FOR STORM SEWERS</b> .....	10-01-2002
02221S	<i>Removing Existing Pavements Structures, Wood, and Demolition Debris</i> .....	10-24-2012
*02221	<b>REMOVING EXISTING PAVEMENTS STRUCTURES, WOOD, AND DEMOLITION DEBRIS</b> .....	07-01-2009
02222	<b>ABANDONMENT OF SEWERS</b> .....	01-01-2011
02233	<b>CLEARING AND GRUBBING</b> .....	01-01-2011
02260	<b>TRENCH SAFETY SYSTEM</b> .....	02-01-2011
02315	<b>ROADWAY EXCAVATION</b> .....	07-01-2009
02316	<b>EXCAVATION AND BACKFILL FOR STRUCTURES</b> .....	01-01-2011
02317	<b>EXCAVATION AND BACKFILL FOR UTILITIES</b> .....	01-01-2011
02318	<b>EXTRA UNIT PRICE WORK FOR EXCAVATION</b>	



<u>Doc. No.</u>	<u>Document Title</u>	<u>Doc. Date</u>
	AND BACKFILL.....	01-01-2011
02319	BORROW.....	01-01-2011
02320	UTILITY BACKFILL MATERIALS .....	01-01-2011
02321	CEMENT STABILIZED SAND .....	01-01-2011
02330	EMBANKMENT.....	10-01-2002
02336	LIME-STABILIZED SUBGRADE .....	10-01-2002
02337	LIME/FLY-ASH STABILIZED SUBGRADE .....	10-01-2002
02338	PORTLAND CEMENT STABILIZED SUBGRADE .....	10-01-2002
02371(LD)	Erosion Control and Vegetation Mat .....	10-15-1995
02400	TUNNEL SHAFTS.....	01-01-2011
02401	COMMON TUNNEL SHAFTS.....	01-01-2011
02425(LD)	Tunnel Excavation and Primary Liner for Water Mains .....	07-01-2002
02426	SEWER LINE IN TUNNELS.....	10-01-2002
02427	PLASTIC LINER FOR LARGE-DIAMETER CONCRETE SEWERS AND STRUCTURES.....	10-01-2002
02431	TUNNEL GROUT .....	10-01-2002
02447	AUGERING PIPE AND CONDUIT .....	10-01-2002
02448	PIPE AND CASING AUGERING FOR SEWERS .....	10-01-2002
02465	DRILLED SHAFT FOUNDATIONS.....	10-01-2002
02476	CAISSON FOR LIFT STATION .....	01-01-2011
02501	DUCTILE IRON PIPE AND FITTINGS.....	02-01-2011
02502	STEEL PIPE AND FITTINGS.....	01-01-2011
02503	COPPER TUBING.....	10-01-2002
02504	CENTRIFUGALLY CAST FIBERGLASS PIPE .....	02-01-2011
02505	HIGH DENSITY POLYETHYLENE (HDPE) SOLID AND PROFILE WALL PIPE .....	02-01-2011
02506	POLYVINYL CHLORIDE PIPE .....	01-01-2011
02507	PRESTRESSED CONCRETE CYLINDER PIPE .....	01-01-2011
02508	EXTRA STRENGTH CLAY PIPE.....	02-01-2011
02511S	<i>Water Lines</i> .....	10-21-2013
*02511	WATER LINES.....	01-01-2011
02512	WATER TAP AND SERVICE LINE INSTALLATION .....	04-27-2012
02513S	<i>Wet Connections</i> .....	10-24-2012
*02513	WET CONNECTIONS.....	10-01-2002
02514S	<i>Disinfection of Water Lines</i> .....	08-17-2015
*02514	DISINFECTION OF WATER LINES.....	01-01-2011
02515S	<i>Hydrostatic Testing of Pipelines</i> .....	08-17-2015
*02515	HYDROSTATIC TESTING OF PIPELINES .....	01-01-2011
02516	CUT, PLUG, AND ABANDONMENT OF WATER LINES .....	01-01-2011
02517	WATER LINE IN TUNNELS.....	10-01-2002
02518S	<i>Steel Pipe and Fittings for Large Diameter Water Lines</i> .....	11-08-2012
*02518	STEEL PIPE AND FITTINGS FOR LARGE-DIAMETER WATER LINES.....	01-01-2011

<u>Doc. No.</u>	<u>Document Title</u>	<u>Doc. Date</u>
02520	FIRE HYDRANTS .....	05-05-2011
02521	GATE VALVES .....	01-01-2011
02522	BUTTERFLY VALVES .....	01-01-2011
02523	PRESSURE REDUCING VALVES .....	10-01-2002
02524	AIR RELEASE AND VACUUM RELIEF VALVES .....	01-01-2011
02525S	Tapping Sleeves and Valves .....	10-24-2012
*02525	TAPPING SLEEVES AND VALVES .....	01-01-2011
02526	WATER METERS .....	01-01-2011
02527	POLYURETHANE COATINGS ON STEEL OR DUCTILE IRON PIPE .....	07-01-2015
02528	POLYETHYLENE WRAP .....	01-01-2011
02531	GRAVITY SANITARY SEWERS .....	01-01-2011
02532	SANITARY SEWER FORCE MAINS .....	01-01-2011
02533	ACCEPTANCE TESTING FOR SANITARY SEWERS .....	01-01-2011
02534	SANITARY SEWER SERVICE STUBS OR RECONNECTIONS .....	01-01-2011
02553	POINT REPAIR AND OBSTRUCTION REMOVALS .....	01-01-2011
02581	STREET LIGHTING CONDUIT .....	10-01-2002
02582	TRAFFIC SIGNAL POLE .....	07-01-2009
02611	REINFORCED CONCRETE PIPE .....	02-01-2011
02612	PRECAST REINFORCED CONCRETE BOX SEWERS .....	10-01-2002
02613	BAR WRAPPED STEEL CYLINDER PIPE .....	01-01-2011
02621	GEOTEXTILE .....	10-01-2002
02631	STORM SEWERS .....	01-01-2011
02632	CAST-IN-PLACE INLETS, HEADWALLS, AND WINGWALLS .....	10-01-2002
02633	PRECAST CONCRETE INLETS, HEADWALLS, AND WINGWALLS .....	10-01-2002
02642	CORRUGATED METAL PIPE .....	10-01-2002
02643	PLATE CULVERT STRUCTURES .....	10-01-2002
02711	HOT MIX ASPHALT BASE COURSE .....	01-01-2011
02712	CEMENT STABILIZED BASE COURSE .....	10-01-2002
02713	RECYCLED CRUSHED CONCRETE BASE COURSE .....	07-01-2009
02714	FLEXIBLE BASE COURSE FOR TEMPORARY DRIVEWAYS .....	07-01-2009
02716(LD)	Cement Stabilized Sand Base .....	10-06-1997
02741	ASPHALTIC CONCRETE PAVEMENT .....	07-01-2009
02742	PRIME COAT .....	10-01-2002
02743	TACK COAT .....	10-01-2002
02751S	Concrete Paving .....	08-27-2015
*02751	CONCRETE PAVING .....	07-01-2009
02752S	Concrete Pavement Joints .....	08-17-2015
*02752	CONCRETE PAVEMENT JOINTS .....	10-01-2002
02753	CONCRETE PAVEMENT CURING .....	10-01-2002
02754	CONCRETE DRIVEWAYS .....	09-01-2002

<b>Doc. No.</b>	<b><u>Document Title</u></b>	<b><u>Doc. Date</u></b>
<b>02761</b>	<b>COLORED CONCRETE FOR MEDIANS AND SIDEWALKS .....</b>	<b>09-01-2002</b>
<i>02762S</i>	<i>Blast Cleaning of Pavement .....</i>	<i>10-27-2004</i>
<b>*02762</b>	<b>BLAST CLEANING OF PAVEMENT .....</b>	<b>10-01-2002</b>
<i>02764S</i>	<i>Raised Pavement Markers .....</i>	<i>10-27-2004</i>
<b>*02764</b>	<b>RAISED PAVEMENT MARKERS .....</b>	<b>07-01-2012</b>
<i>02765S</i>	<i>Preformed Pavement Markings .....</i>	<i>08-27-2015</i>
<b>*02765</b>	<b>PREFORMED PAVEMENT MARKINGS .....</b>	<b>07-01-2012</b>
<i>02767S</i>	<i>Thermoplastic Pavement Markings .....</i>	<i>10-27-2004</i>
<b>*02767</b>	<b>THERMOPLASTIC PAVEMENT MARKINGS .....</b>	<b>07-01-2012</b>
<b>02771</b>	<b>CURB, CURB AND GUTTER, AND HEADERS .....</b>	<b>10-01-2002</b>
<b>02772</b>	<b>CONCRETE MEDIANS AND DIRECTIONAL ISLANDS .....</b>	<b>10-01-2002</b>
<b>02775</b>	<b>CONCRETE SIDEWALKS .....</b>	<b>10-01-2002</b>
<b>02811</b>	<b>LANDSCAPE IRRIGATION .....</b>	<b>10-01-2002</b>
<b>02821</b>	<b>Chain Link Fences and Gates .....</b>	<b>02-09-2012</b>
<b>02893</b>	<b>TRAFFIC SIGNAL CONSTRUCTION .....</b>	<b>07-01-2009</b>
<b>02911</b>	<b>TOPSOIL .....</b>	<b>10-01-2002</b>
<b>02912</b>	<b>TREE, PLANT, &amp; LANDSCAPE PROTECTION .....</b>	<b>07-01-2009</b>
<b>02915</b>	<b>TREE PLANTING .....</b>	<b>01-01-2011</b>
<b>02921</b>	<b>HYDROMULCH SEEDING .....</b>	<b>01-01-2011</b>
<b>02922</b>	<b>SODDING .....</b>	<b>07-01-2009</b>
<i>02951S</i>	<i>Pavement Repair and Restoration .....</i>	<i>08-27-2015</i>
<b>*02951</b>	<b>PAVEMENT REPAIR AND RESTORATION .....</b>	<b>07-01-2009</b>
<b>02960</b>	<b>MILLING PAVEMENT .....</b>	<b>07-01-2009</b>
<b>02983</b>	<b>REMOVAL AND RESTORATION OF BRICK-PAVED STREETS..</b>	<b>10-01-2002</b>
 <b>DIVISION 3 – CONCRETE</b>		
<b>03315</b>	<b>CONCRETE FOR UTILITY CONSTRUCTION.....</b>	<b>10-01-2002</b>
 <b>DIVISION 4 - MORTAR</b>		
<b>04061</b>	<b>MORTAR.....</b>	<b>10-01-2002</b>
<b>04210</b>	<b>BRICK MASONRY FOR UTILITY CONSTRUCTION .....</b>	<b>10-01-2002</b>
 <b>DIVISION 5 – METALS</b>		
<b>05501</b>	<b>METAL FABRICATIONS .....</b>	<b>01-01-2011</b>
 <b>DIVISION 15 - MECHANICAL</b>		
<b>15640</b>	<b>JOINT BONDING AND ELECTRICAL ISOLATION.....</b>	<b>01-01-2011</b>
<b>15641</b>	<b>CORROSION CONTROL TEST STATIONS .....</b>	<b>01-01-2011</b>
 <b>DIVISION 16 - ELECTRICAL</b>		
<b>16010</b>	<b>BASIC ELECTRICAL REQUIREMENTS .....</b>	<b>01-01-2011</b>
<b>16640</b>	<b>CATHODIC PROTECTION FOR PIPELINES .....</b>	<b>01-01-2011</b>

<b><u>Doc. No.</u></b>	<b><u>Document Title</u></b>	<b><u>Doc. Date</u></b>
<b>APPENDIX A - HCFCD Standard Specifications (only applicable for work within HCFCD Right-of-way):</b>		
02120	Material Disposal .....	08-31-2005
02316	Structural Excavating and Backfilling .....	08-31-2005
02321	Cement Stabilized Sand .....	08-31-2005
02378	Riprap and Granular Fill.....	08-31-2005
02464	Timber Bents .....	08-31-2005
02631	Storm Sewers and Outfalls .....	08-31-2005
02642	Corrugated Metal Pipe .....	08-31-2005
02911	Topsoil .....	08-31-2005
02921	Turf Establishment.....	08-31-2005
02922	Sod .....	08-31-2005
02923	Seed .....	08-31-2005
02925	Mulch and Tackifier.....	08-31-2005
02936	Fertilizer .....	08-31-2005

**APPENDIX B – STORM WATER POLLUTION PREVENTION PROGRAM ..... 09-2015**

END OF DOCUMENT

Document 00210

**SUPPLEMENTARY INSTRUCTIONS TO BIDDERS**

*The following Paragraphs modify Document 00200 - Instructions to Bidders. Where a portion of the Instructions to Bidders is modified or deleted by these Supplementary Instructions, the unaltered portions of the Instructions to Bidders remains in effect.*

**2.0 – DEFINITIONS:** Add the following Paragraphs to this Section:

- O. *Office of Business Opportunity (OBO):* All references to Affirmative Action Contract Compliance Division (AACC) set forth in Document 00700 – General Conditions and in other documents of the Project Manual, shall refer to, and include, the Office of Business Opportunity.

**3.0 - NOTICE TO BIDDERS:** Add the following Paragraph to this Section:

- C. The City will award this contract to a “Local Business”, as that term is defined in Section 15-176 of the City of Houston Code of Ordinances (“the Code”):
  - If the bid of the Local Business is less than \$100,000 and is the lowest responsible bid or is within 5% of the lowest bid received, or
  - If the bid of the Local Business is more than \$100,000 and is the lowest responsible bid or is within 3% of the lowest bid received, and
  - Unless the Director determines that such an award would unduly interfere with contract needs, as provided in Section 15-181 of the Code.

If there is no bid of a Local Business that meets these criteria, the City will award the contract to the lowest responsible bidder.

**4.0 – BID DOCUMENTS:** Add the following Paragraphs to this Section:

- A. Add the following Paragraph A.1:
  - 1. Bid documents may only be obtained electronically at the City’s website:  
<http://bidsets.publicworks.houstontx.gov/>.
- D. Add the following Paragraph D.1:
  - 1. Copies of the City Standard Specifications and Details may be acquired at no cost on the City’s website  
[http://documents.publicworks.houstontx.gov/document-center/cat\\_view/88-engineering-and-construction/92-specifications/208-division-02-16-standard-specifications.html](http://documents.publicworks.houstontx.gov/document-center/cat_view/88-engineering-and-construction/92-specifications/208-division-02-16-standard-specifications.html)

- E. The following plan rooms, whose names, addresses, phone and fax numbers were last updated on April 9, 2007, have been authorized by the City to display Bid Documents for examination:  
(Note: The Bid Documents furnished to the plan rooms for examination can be in electronic format, in hard copies, or in any other formats pertaining to each City Contracting Division's discretion.)
1. AMTEK Information Services, Inc., 4001 Sherwood Lane, Houston, TX 77092, 713-956-0100, Fax 713-956-5340, Email: [planroom@amtekusa.com](mailto:planroom@amtekusa.com)
  2. Associated Builders & Contractors, Inc., (ABC), 3910 Kirby, Suite 131, Houston, TX 77098-4151, 713-523-6222, Fax 713-874-0747. Email: [lori@abchouston.org](mailto:lori@abchouston.org)
  3. Associated General Contractors (AGC-BB) Building Branch, 3825 Dacoma, Houston, TX 77092-8717, 713-843-3700, Fax 713-843-3701. Email: [karla.s@agchouston.org](mailto:karla.s@agchouston.org)
  4. Associated General Contractors, (AGC-HHUI), Highway, Heavy Utilities and Industrial Branch, 2400 Augusta St., Suite 180, Houston, TX 77057, 713-334-7100, Fax 713-334-7130. Email: [houston@agctx.org](mailto:houston@agctx.org) (Attention: Mel Keyser)
  5. Construction Information Network, 1225 North Loop West, Suite 550, Houston, TX 77008, 713-868-2233 ext. 329, Fax 866-852-2713. Email: [paul.tilford@cnsx.com](mailto:paul.tilford@cnsx.com)
  6. F. W. Dodge Corporation, 4101 Greenbriar, Suite 320, Houston, TX 77098, 713-529-4895, Fax 713-524-7639. Email: [terrie\\_harris@mcgraw-hill.com](mailto:terrie_harris@mcgraw-hill.com)
  7. Hispanic Contractors Association of Houston (HCA-GHA), 11 Parker Road, Suite 7, Houston, TX 77241, 713-699-2732 or 832-754-3705, Fax 713-695-1556, Email: [hispaniccontractorsassociation@yahoo.com](mailto:hispaniccontractorsassociation@yahoo.com); or [Randymagdaleno@yahoo.com](mailto:Randymagdaleno@yahoo.com)
  8. Houston Minority Business Development Center, 2900 Woodridge, Suite 124, Houston, TX 77087, 713-644-0821, Fax 713-644-3523. Email: [gtamez@gacompanies.com](mailto:gtamez@gacompanies.com)
  9. Reed Construction Data, 30 Technology Parkway South, Suite 100, Norcross, GA – 30092-8629. Tel. 1-800-424-3996 or 1-800-699-8640; Fax 1-800-317-0870 or 1-800-508-5370.

10. The Builders' Exchange of Texas, Inc., 3910 Kirby, Suite 131, Houston, TX 77098, 210-564-6900, Fax: 210-564-6921, Email: [houston@bctx.com](mailto:houston@bctx.com)

F. Add the following Paragraph F.1:

**1. Designation as a City Business or Local Business**

To be designated as a City or Local Business for the purpose of the Hire Houston First Program, as set out in Article XI of Chapter 15 of the Houston City Code, a bidder or proposer must submit the Hire Houston First Application and Affidavit to the Director of the Mayor's Office of Business Opportunity (OBO) and receive notice that the designation has been approved prior to submission of a bid or proposal. Submit with your bid a valid official letter from OBO with your designation as a City or Local Business.

5.0 - EXAMINATION OF DOCUMENTS, SITE, AND LOCAL CONDITIONS: Insert the following paragraph:

A. Add the following Paragraph D.1:

1. Work will be performed in public right-of-way. The site may be examined at any time during daylight hours.

9.0 – PREPARATION OF BIDS: Add the following Paragraph I to this Paragraph:

- I. For math errors the City encounters in analyzing Bids, the following guidance will be used:

In the event of a conflict between:      The Bid Price is:

- |   |   |
|---|---|
| 1. Individual Unit Price and Extension of that Unit Price   | Individual Unit Price times Estimated Quantity  |
| 2. A Unit Price extension and total of Unit Price Extensions  | Sum of all Individual Unit Price Extensions   |
| 3. Individual Alternate and total of Alternates   | Sum of all Individual Alternates  |
| 4. Individual subtotals for Stipulated Price, Base Unit Prices, Extra Unit Prices, Contractor Bonus, Cash Allowances, and Alternates; and the Total Bid Price | Sum of Individual subtotals for Stipulated Price, Base Unit Prices, Extra Unit Prices, Contractor Bonus, Cash Allowances and Alternates |

10.0 – BID SUBMISSION: Add the following Paragraph A.1 to this Section:

A. Add the following Paragraph A.1:

1. City Secretary will receive Bids at 900 Bagby, Room P101, Houston, Texas until 10:30 a.m., local time on January 14, 2016.

15.0 – PREBID MEETING: Add the following Paragraph A.1 to this Section:

A. Add the following Paragraph A.1:

1. A Prebid Meeting will be held at 10:00 A.M. on Tuesday, December 15, 2015, in 15th Floor, Conference Room No. 1546 at 611 Walker, Houston, Texas 77002.

END OF DOCUMENT



Document 00410A

**BID FORM – PART A**

To: **The Honorable Mayor and City Council of the City of Houston**  
**City Hall Annex**  
**900 Bagby Street**  
**Houston, Texas 77002**

Project: 60-inch Water Line along Monroe and Rockhill from Airport to Glen Valley

Project No.: WBS No. S-000900-0129-4

Bidder: \_\_\_\_\_  
(Print or type full name of business entity, such as corporation, LLC, etc)

**1.0 OFFER**

- A. Total Bid Price:** Having examined the Project location and all matters referred to in Bid Documents for the Project, we, the undersigned, offer to enter into a Contract to perform the Work for the Total Bid Price shown on the signature page of this Document
- B. Security Deposit:** Included with the Bid is a Security Deposit in the amount of 10 percent of the Total Bid Price subject to terms described in Document 00200 – Instructions to Bidders.
- C. Period for Bid Acceptance:** This offer is open to acceptance and is irrevocable for 90 days from Bid Date. That period may be extended by mutual written agreement of the City and Bidder.
- D. Addenda:** All Addenda have been received. Modifications to Bid Documents have been considered and all related costs are included in the Total Bid Price.
- E. Bid Supplements:** The following documents are attached:
- ☒ Security Deposit *(as defined in Document 00200 – Instructions to Bidders)*
  - ☒ Document 00450 - Bidder's Statement of MWSBE Status
  - ☒ Document 00452 - Contractor's Submission List - Fair Campaign Ordinance Form A
  - ☒ Document 00453 – Bidder's Statement of Residency *(not required for AIP funded project)*
  - ☒ Document 00454 - Affidavit of Non-interest
  - ☒ Document 00455 - Affidavit of Ownership or Control
  - ☐ Document 00456 - Bidder's Certificate of Compliance with Buy American Program *(required for AIP funded project)*
  - ☒ Document 00457 – Conflicts of Interest Questionnaire (CIQ)
  - ☐ Document 00458 - Bidder's Certificate Regarding Foreign Trade Restriction *(required for AIP funded project)*
  - ☐ Document 00459 - Contractor's Statement Regarding Previous Contracts Subject to EEO *(required for AIP funded project)*
  - ☒ Document 00460 – Pay or Play Acknowledgement Form (POP 1-A)

00410-A1

08-01-2015

Addendum No. 1

- ☒ Document 00470 – Bidder's MWSBE Participation Plan *(required unless no MWSBE participation goal is provided in Document 00800 (the "Goal"))*.
  - ☐ Document 00471 – Bidder's Record of Good Faith Efforts *(required if the goal in Bidder's Participation Plan–Document 00470 is lower than the Goal)*.
  - ☐ Document 00472 – Bidder's Goal Deviation Request *(required if the goal in Bidder's Participation Plan–Document 00470 is lower than the Goal)*.
  - ☒ Others as listed: Valid official letter from OBO with your designation as a City or Local Business (Bidder's Participation Hire Houston First)
- 

## **2.0 CONTRACT TIME**

- A.** If offer is accepted, Contractor shall achieve Date of Substantial Completion within 500 days after Date of Commencement of the Work, subject to adjustments of Contract Time as provided in the Contract.

Document 00410B

**BID FORM – PART B**

**1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):**

**A. STIPULATED PRICE:**

**\$ 0.00 (N/A)**

(Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowances and All Alternates, if any)

**B. BASE UNIT PRICE TABLE:**

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
<b>GENERAL</b>						
1	01502	Mobilization See footnote (1)	LS	1	\$450,000.00 <sup>(1)</sup>	\$450,000.00 <sup>(1)</sup>
2	01555	Flagmen See footnote (2)	LS	1	\$100,000.00 <sup>(2)</sup>	\$100,000.00 <sup>(2)</sup>
3	01555	Traffic Control and Regulation See footnote (2)	LS	1	\$275,000.00 <sup>(2)</sup>	\$275,000.00 <sup>(2)</sup>
4	01555	Install low profile concrete traffic barrier	LF	1,280		
5	01555	Relocate low profile concrete traffic barrier	LF	5,500		
6	01555	Remove low profile concrete traffic barrier	LF	1,280		
7	01562	Tree and plant protection See footnote (2)	LS	1	\$30,000.00 <sup>(2)</sup>	\$30,000.00 <sup>(2)</sup>
8	01562	Zero Curb Cutback	LF	1,140		
9	01562	Install Checkerplate	SF	50		
10	01570	Filter fabric fence	LF	2,680		
11	01570	Reinforced filter fabric fence	LF	520		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
12	01570	Sandbag barrier	LF	100		
13	01570	Inlet protection barrier	LF	600		
14	01570	Stone filter dam	LS	1		
15	01575	Stabilized construction access	SY	150		
16	01578	Ground Water control for open-cut construction See footnote (2)	LF	9,500	\$15.00 <sup>(2)</sup>	\$142,500.00 <sup>(2)</sup>
17	01740	Site restoration See footnote (2)	LF	6,500	\$5.00 <sup>(2)</sup>	\$32,500.00 <sup>(2)</sup>
18	02260	Trench safety system for trench excavations	LF	12,600		
19	02581	Conduit 2-inch Sch 80 PVC	LF	1,250		
20	02581	Conduit 2-inch Sch 40 PVC	LF	2,900		
21	02915	Plant 2-inch tree with 30 gallon container	EA	7		
22	02921	Hydromulch seeding	AC	2.20		
23	02922	Sodding	SY	2,330		
24	01270	Tifway 419 Sodding	SY	1,770		
<b>WATER</b>						
25	02082	72-inch Water Line access manhole	EA	6		
26	02082	84-inch Water Line access manhole	EA	1		
27	02082	Extra depth manhole	VF	150		
28	02221	Remove/Dispose 6-inch diameter AC water line	LF	75		
29	02221	Remove/Dispose 8-inch diameter AC water line	LF	120		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
30	02221	Remove/Dispose 12-inch diameter AC water line	LF	375		
31	02221	Remove/Dispose 66-inch diameter water line	LF	13		
32	02511	6-inch diameter DIP water line by trenchless construction with restrained joints	LF	10		
33	02511	8-inch diameter water line by trenchless construction with restrained joints	LF	300		
34	02511	8-inch diameter DIP water line by trenchless construction with restrained joints	LF	180		
35	02511	12-inch diameter water line by trenchless construction	LF	2,070		
36	02511	12-inch diameter water line by trenchless construction with restrained joints	LF	170		
37	02511	12-inch diameter DIP water line by trenchless construction with restrained joints	LF	20		
38	02511	16-inch diameter water line by trenchless construction	LF	1,045		
39	02511	16-inch diameter water line by trenchless construction with restrained joints	LF	1,535		
40	02511	16-inch diameter DIP water line by trenchless construction with restrained joints	LF	1,215		
41	02511	60-inch diameter water line by open-cut	LF	5,118		
42	02511	60-inch diameter steel water line by open-cut	LF	1,320		
43	02511	Remove 66-inch diameter internal elliptical or dished head plug	EA	1		
44	02511	Drain line valve with access manhole and 18-inch RCP connection	EA	2		
45	02511	60-Inch diameter by 12-Inch diameter Interconnection	EA	1		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
46	02512	3/4-inch through 1-inch diameter water taps and copper service line with meter box, short side	EA	52		
47	02512	3/4-inch through 1-inch diameter water taps and copper service line with meter box, long side	EA	33		
48	02512	1 1/2-inch through 2-inch diameter water taps and copper service line with meter box, short side	EA	4		
49	02512	1 1/2-inch through 2-inch diameter water taps and copper service line with meter box, long side	EA	2		
50	02512	1 1/2-inch through 2-inch diameter water taps and copper service line with meter box, extra long side	EA	2		
51	02513	6-inch diameter wet connection	EA	1		
52	02513	8-inch diameter wet connection	EA	9		
53	02513	12-inch diameter wet connection	EA	6		
54	02516	Cut, plug, and abandon existing 6-inch diameter water line	EA	3		
55	02516	Cut, plug, and abandon existing 8-inch diameter water line	EA	21		
56	02516	Cut, plug, and abandon existing 12-inch diameter water line	EA	33		
57	02517	60-inch diameter water line in tunnel	LF	313		
58	02517	60-inch diameter steel water line in tunnel	LF	190		
59	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box	EA	16		
60	02520	6-inch diameter fire hydrant branch by open-cut	LF	145		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
61	02520	Remove and salvage existing fire hydrant	EA	11		
62	02522	60-inch diameter butterfly valve	EA	4		
63	02524	3-inch diameter air inlet vacuum relief valve assembly	EA	8		
64	02525	12-inch by 12-inch diameter tapping sleeves and valve with box	EA	1		
65	16640	Cathodic protection system	LS	1		
66	01270	Steel survey pipe	EA	2		
67	01270	60-inch diameter steel water line at fault crossing, including 78-inch steel casing, expansion joints, vaults and survey Pipe (Sta. 16+81 To Sta. 20+79)	LS	1		
<b>SANITARY</b>						
68	02221	Remove and Dispose 8 inch sewer line	LF	70		
69	02221	Remove and Dispose 10 inch sewer line	LF	20		
70	02221	Remove and Dispose 15 inch sewer line	LF	70		
71	02531	8-inch sanitary sewer (pressure rated)	LF	70		
72	02531	10-inch sanitary sewer (pressure rated)	LF	20		
73	02531	15-inch sanitary sewer (pressure rated)	LF	70		
74	02555	Remove and replace 4-foot diameter sanitary sewer manhole, all depths	EA	1		
<b>STORM</b>						
75	02221	Remove/Dispose storm pipe 18-inch dia	LF	55		
76	02221	Remove/Dispose storm pipe 24-inch dia	LF	2,228		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
77	02221	Remove/Dispose storm pipe 30-inch dia	LF	40		
78	02221	Remove/Dispose inlets all sizes/depth	EA	29		
79	02221	Remove/Dispose manholes all sizes/depth	EA	5		
80	02082	Type C manhole for 42-inch diameter and smaller sewers	EA	25		
81	02082	Type C manhole for 48-inch to 72-inch diameter sewers	EA	1		
82	02631	24-inch diameter storm sewer by open-cut	LF	2,565		
83	02631	30-inch diameter storm sewer by open-cut	LF	131		
84	02631	36-inch diameter storm sewer by open-cut	LF	689		
85	02631	42-inch diameter storm sewer by open-cut	LF	1,103		
86	02633	Type C-1 inlet	EA	14		
87	02633	Type BB inlet	EA	20		
<b>PAVING</b>						
88	01554	Furnish and Install Traffic Signs	EA	54		
89	02821	Remove and replace private chain link fence	LF	765		
90	01270	Remove and replace private wooden fence	LF	290		
91	02086	Adjust existing manhole frame and cover to new grade	EA	2		
92	02086	Adjust existing water meter box or valve box to new grade, replace all damaged or missing parts	EA	82		
93	02221	Remove/Dispose existing sign with pole, with or without foundation	EA	48		



Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
94	02221	Removing and disposing of concrete pavements (including all thickness, w/or w/o asphalt, including base & subgrade, w/ or w/o curb, all depths)	SY	26,580		
95	02221	Remove and dispose of concrete sidewalks and driveways, all thicknesses	SY	8,190		
96	02221	Remove and dispose of concrete curb and gutter	LF	205		
97	02315	Roadway excavation, including removal of waste disposal	CY	1,020		
98	02315	Reshaping and regrading existing ditches	LF	300		
99	02319	Borrow (Offsite)	CY	1,490		
100	02336	Lime stabilized subgrade 8-inch thick (8% lime by dry weight)	SY	30,415		
101	02336	Lime for lime stabilized subgrade (dry weight)	TON	810		
102	02376	Turf reinforcement mat (TYP II)	SY	285		
103	02711	HotMix Asphalt Base Course (TypeA/B) / All Thickness	TON	5		
104	02741	Hot Mix Asphalt Concrete Pavement 3-inch thick	TON	2		
105	02741	Speed Humps/ Asphalt	LF	72		
106	02741	Temporary asphalt concrete pavement for detour/roadway and shoulder	SY	1,800		
107	02751	Reinforced concrete pavement 9-inch thick	SY	11,595		
108	02751	Reinforced concrete pavement 11-inch thick	SY	9,485		
109	02751	High Early Strength Reinforced concrete pavement 9-inch thick	SY	2,410		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
110	02751	High Early Strength Reinforced concrete pavement 11-inch thick	SY	3,650		
111	02752	Street pavement expansion joint with load transfer	LF	3,460		
112	02752	Horizontal dowels, 24-inch	EA	11,625		
113	02752	Sidewalk horizontal dowels	EA	820		
114	02752	Saw-cut concrete pavement, driveways and sidewalk (all depths)	LF	2,820		
115	02754	Concrete driveways including excavation 6-inch thick	SF	32,280		
116	02754	Concrete driveways including excavation 7-inch thick	SF	1,595		
117	02764	Raised reflective pavement marker, (TY II-C-R)	EA	110		
118	02764	Raised reflective pavement marker, CL B (TY II-B-B)	EA	19		
119	02767	Thermoplastic Pavement Marking 4-inch wide White/Yellow(SLD/BRK)	LF	5,145		
120	02767	Thermoplastic pavement marking 6-inch-wide White/Yellow	LF	605		
121	02767	Thermoplastic pavement marking 12-inch-wide White/Yellow	LF	2,880		
122	02767	Thermoplastic pavement marking 24-inch-wide White/Yellow	LF	335		
123	02767	Thermoplastic Pavement Marking Elongated Word ONLY	EA	5		
124	02767	Thermoplastic pavement marking symbol TURNING ARROW	EA	5		
125	02767	Thermoplastic pavement marking symbol DIAMOND	EA	2		
126	02771	6-inch doweled curb	LF	14,030		
127	02771	6-inch curb and gutter (monolithic)	LF	30		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
128	02771	Concrete Paving Header	LF	55		
129	02772	6-inch Concrete median or directional island	SY	15		
130	02775	Curb ramp	SF	2,810		
131	02775	Sidewalk 4 1/2-inch thick	SF	46,180		
132	02775	Concrete slope pavement	SF	510		
133	02951	Pav Repairs/Replacement with Base material/Conc surface	SY	1,960		
134	01270	Metal guard beam fence	LF	845		
135	01270	Remove and Relocate Airport Special Signs	EA	2		
<b><u>TOTAL BASE UNIT PRICES</u></b>						<b>\$ _____</b>

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**C. EXTRA UNIT PRICE TABLE:**

Item No.	Spec Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
136	02317	6" Overexcavate trench bottom See footnote (2)	LF	1,500		
					\$4.00 <sup>(2)</sup>	\$6,000.00 <sup>(2)</sup>
137	02317	Excavation around obstructions See footnote (2)	CY	400		
					\$30.00 <sup>(2)</sup>	\$12,000.00 <sup>(2)</sup>
138	02317	Extra hand excavation See footnote (2)	CY	400		
					\$15.00 <sup>(2)</sup>	\$6,000.00 <sup>(2)</sup>
139	02317	Extra machine excavation See footnote (2)	CY	200		
					\$20.00 <sup>(2)</sup>	\$4,000.00 <sup>(2)</sup>
140	02317	Extra placement of backfill material See footnote (2)	CY	200		
					\$15.00 <sup>(2)</sup>	\$3,000.00 <sup>(2)</sup>
141	02511	Remove 60-inch diameter internal elliptical or dished head plug See footnote (2)	EA	1		
					\$1,000.00 <sup>(2)</sup>	\$1,000.00 <sup>(2)</sup>
142	02511	Extra 60-inch diameter cylinder Pipe angle adapters See footnote (2)	EA	4		
					\$5,000.00 <sup>(2)</sup>	\$20,000.00 <sup>(2)</sup>
143	02511	Extra 60-inch water fittings, in place See footnote (2)	EA	4		
					\$5,000.00 <sup>(2)</sup>	\$20,000.00 <sup>(2)</sup>
144	02501	Extra ductile Iron compact fittings, in place See footnote (2)	TON	1		
					\$2,000.00 <sup>(2)</sup>	\$2,000.00 <sup>(2)</sup>
145	01270	Demobilize/remobilize See footnote (2)	EA	1		
					\$30,000.00 <sup>(2)</sup>	\$30,000.00 <sup>(2)</sup>
<b><u>TOTAL EXTRA UNIT PRICES</u></b>						
						\$104,000.00 <sup>(2)</sup>

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**D. CASH ALLOWANCE TABLE:**

Item No.	Spec Ref.	Cash Allowance Short Title	Cash Allowance in figures (1)
146	01110	Street cut permit fee	\$10,000.00
147	01110	Floodplain Management permit fee	\$3,000.00
148	01110	Street Lighting	\$58,660.00
<b><u>TOTAL CASH ALLOWANCES</u></b>			\$71,660.00

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**E. ALTERNATES TABLE:**

Item No.	Spec Ref.	Alternate Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total Price for Alternate in figures
N/A		N/A				\$0.00
<b><u>TOTAL ALTERNATES</u></b>						\$0.00

REST OF PAGE INTENTIONALLY LEFT BLANK

**F. TOTAL BID PRICE:**

\$

(Add Totals for Stipulated Price, Base Unit Price, Extra Unit Price, Cash Allowance, and All Alternates, if any)

**2.0 SIGNATURES:** By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Bid Price.

Bidder:

(Print or type full name of your proprietorship, partnership, corporation, or joint venture.\*)

**\*\*By:**

Signature

Date

Name:

(Print or type name)

Title

Address:

(Mailing)

(Street, if different)

Telephone and Fax Number:

(Print or type numbers)

- \* If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture.
- \*\* Bidder certifies that the only person or parties interested in this offer as principals are those named above. Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

**Note:** This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Fixed Unit Price determined prior to Bid. Cannot be adjusted by the Bidder.
- (2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder, but not decreased, by crossing out the Minimum and inserting revised price on the line above. **Cannot** be decreased by the Bidder.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased by the Bidder, but not increased, by crossing out the Maximum and inserting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive. **Cannot** be increased by the Bidder.
- (4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

Document 00520

**AGREEMENT**

**Project:** 60-inch Water Line along Monroe and Rockhill from Airport to Glen Valley  
**Project Location:** Along Rockhill from Glen Valley to Monroe and along Monroe from Rockhill to  
Airport.(Key Map No. 535 X & Y, 575 C)  
**Project No:** WBS No. S-000900-0129-4

**The City:** THE CITY OF HOUSTON, 900 Bagby Street, Houston, Texas 77002 (the "City")  
and

**Contractor:** \_\_\_\_\_  
(Address for Written Notice) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Fax Number:** \_\_\_\_\_ **Phone Number:** \_\_\_\_\_

**City Engineer, with respect to Sections 4.3 thru 4.5 of the General Conditions, is:**

J. Timothy Lincoln, P.E. (or his successor)

P. O. Box 1562, Houston, Texas 77251-1562 (Address for Written Notice)

**City Engineer, with respect to all other terms of the General Conditions, is:**

Joseph T. Myers, P.E. (or his successor)

**Fax Number:** (832) 395-2410

**THE CITY AND CONTRACTOR AGREE AS FOLLOWS:**

**ARTICLE 1**  
**THE WORK OF THE CONTRACT**

1.1 Contractor shall perform the Work in accordance with the Contract.

**ARTICLE 2**  
**CONTRACT TIME**

2.1 Contractor shall achieve Date of Substantial Completion within 500 days after Date of Commencement of the Work, subject to adjustments of Contract Time as provided in the Contract.

2.2 The Parties recognize that time is of the essence for this Agreement and that the City will suffer financial loss if the Work is not completed within the Contract Time. Parties also recognize delays, expense, and difficulties involved in proving in a legal or arbitration proceeding actual loss suffered by the City if the Work is not completed on time. Accordingly, instead of requiring any such proof, the Parties agree that as

00520-1

07-01-2013

Addendum No. 1



liquidated damages for delay (but not as a penalty), Contractor shall pay the City the amount stipulated in Document 00800 – Supplementary Conditions, for each day beyond Contract Time.

**ARTICLE 3  
CONTRACT PRICE**

3.1 Subject to terms of the Contract, the City will pay Contractor in current funds for Contractor's performance of the Contract, Contract Price of \$\_\_\_\_\_ which includes Alternates, if any, accepted below.

3.2 The City accepts Alternates as follows:

\*\*\*\*\*  
*Delete or add lines below to indicate all Alternates that were included in Request for competitive sealed proposals. Remove brackets and instructions when done.  
Change color of remaining text to black.*  
\*\*\*\*\*

Alternate No. 1	<u>[Accepted or Not Accepted]</u>
Alternate No. 2	<u>[Accepted or Not Accepted]</u>
Alternate No. 3	<u>[Accepted or Not Accepted]</u>
Alternate No. 4	<u>[Accepted or Not Accepted]</u>

**ARTICLE 4  
PAYMENTS**

4.1 The City will make progress payments to Contractor as provided below and in Conditions of the Contract.

4.2 The Period covered by each progress payment is one calendar month ending on the [☒] 15th or [☐] last day of the month.

4.3 The City will issue Certificates for Payment and will make progress payments on the basis of such Certificates as provided in Conditions of the Contract.

4.4 Final payment, constituting entire unpaid balance of Contract Price, will be made by the City to Contractor as provided in Conditions of the Contract.

**ARTICLE 5  
CONTRACTOR REPRESENTATIONS**

5.1 Contractor represents:

5.1.1 Contractor has examined and carefully studied Contract documents and other related data identified in Request For or Competitive Sealed Proposals or Competitive Sealed Bids.

5.1.2 Contractor has visited the site and become familiar with and is satisfied as to general, local, and site conditions that may affect cost, progress, and performance of the Work.

5.1.3 Contractor is familiar with and is satisfied as to all federal, state, and local laws and regulations that may affect cost, progress, and performance of the Work.

5.1.4 Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except Underground Facilities) which have been identified in Contract documents and (2) reports and drawings of a hazardous environmental condition, if any, at the site which has been identified in Contract documents.

5.1.5 Contractor has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including applying specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract to be employed by Contractor, and safety precautions and programs incident thereto

5.1.6 Contractor does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for performance of the Work at Contract Price, within Contract Time, and in accordance with the Contract.

5.1.7 Contractor is aware of general nature of work to be performed by the City and others at the site that relates to the Work as indicated in Contract documents.

5.1.8 Contractor has correlated information known to Contractor, information and observations obtained from visits to the site, reports and drawings identified in the Contract, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract.

5.1.9 Contractor has given City Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract, and written resolution thereof by City Engineer is acceptable to Contractor.

5.1.10 Contract documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

## **ARTICLE 6 MISCELLANEOUS PROVISIONS**

6.1 The Contract may be terminated by either Party as provided in Conditions of the Contract.

6.2 The Work may be suspended by the City as provided in Conditions of the Contract.

## **ARTICLE 7 ENUMERATION OF CONTRACT DOCUMENTS**

7.1 The following documents are incorporated into this Agreement:

7.1.1 Document 00700 - General Conditions.

7.1.2 Document 00800 - Supplementary Conditions.

7.1.3 Division 01 - General Requirements.

7.1.4 Divisions 02 through 16 of Specifications.

7.1.5 Drawings listed in Document 00015 - List of Drawings. Drawing No. 55116 and bound separately.

7.1.6 Addenda [and Riders] which apply to the Contract, are as follows:

Addendum No. 1, dated	<u>December 30, 2015</u>
Addendum No. 2, dated	<u>None</u>
Addendum No. 3, dated	<u>None</u>
Rider No. [ ], dated	<u>None</u>

7.1.7 Other documents:

<u>Document No.</u>	<u>Title</u>
[X] 00410B	Bid Form – Part B
[X] 00470	Standard Pre-Bid Participation Plan Document
[ ] 00471	Pre-Bid Good Faith Efforts Report
[ ] 00472	Goal Deviation Request
[ ] 00500	Form of Business
[X] 00501	Resolution of Contractor (if a corporation)
[ ] 00570	Amended S/MWBE Participation Plan
[ ] 00571	Contractor's Good Faith Efforts Report
[ ] 00572	Plan Deviation Request
[ ] 00608	Contractor's Certification Regarding Non-Segregated Facilities for Project Funded by AIP Grant
[X] 00610	Performance Bond
[X] 00611	Statutory Payment Bond
[X] 00612	One-year Maintenance Bond
[X] 00613	One-year Surface Correction Bond
[X] 00620	Affidavit of Insurance (with the Certificate of Insurance attached)
[ ] 00623	Contractor's Act of Assurance (SRF Form ED-103)
[X] 00624	Affidavit of Compliance with Affirmative Action Program
[ ] 00628	Affidavit of Compliance with Disadvantaged Business Enterprise (DBE) Program for Project Funded By AIP Grant
[X] 00630	(POP-2) Certification of Compliance with Pay or Play Program
[X] 00631	(POP-3) City of Houston Pay or Play Program – List of Subcontractors
[X] 00800	Supplementary Conditions for Project CIP or AIP Funded
[ ] 00801	Supplementary Conditions for Project AIP Funded
[ ] 00802	SRF Supplementary Conditions
[X] 00805	Equal Employment Opportunity Program Requirements
[ ] 00806	EPA DBE and Wage Rate Requirements (SRF only)
[ ] 00807	Bidder/Contractor Requirements for DBE Program
[X] 00808	Minority and Women-owned Business Enterprise (MWBE) & Persons with Disabilities Business Enterprise (PDBE) Program
[ ] 00810	Federal Wage Rate - Highway
[ ] 00811	Federal Wage Rate - Building
[ ] 00812	Federal Wage Rate - Heavy
[X] 00820	Wage Rate for Engineering Construction
[ ] 00821	Wage Rate for Building Construction
[ ] 00830	Trench Safety Geotechnical Information
[X] 00840	Pay or Play Program
[ ] 00912	Rider

**ARTICLE 8  
SIGNATURES**

8.1 This Agreement is executed in two original copies and is effective as of the date of countersignature by City Controller.

**CONTRACTOR:**

(If Joint Venture)

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_  
Tax Identification Number: \_\_\_\_\_

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_  
Tax Identification Number: \_\_\_\_\_

**CITY OF HOUSTON, TEXAS**

**APPROVED:**

**SIGNED:**

By: \_\_\_\_\_  
Director,  
Department of Public Works and Engineering

By: \_\_\_\_\_  
Mayor

**COUNTERSIGNED:**

By: \_\_\_\_\_  
City Controller

Date Countersigned: \_\_\_\_\_

**ATTEST/SEAL:**

By: \_\_\_\_\_  
City Secretary

\_\_\_\_\_

8.2 This Contract and Ordinance have been reviewed as to form by the undersigned legal assistant and have been found to meet established Legal Department criteria. Legal Department has not reviewed the content of these documents.

\_\_\_\_\_  
Legal Assistant

\_\_\_\_\_  
Date

**END OF DOCUMENT**

Section 01110  
SUMMARY OF WORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Summary of the Work including Work by the City, City-furnished Products, Work sequence, future Work, Contractor use of Premises.

1.02 PROJECT DESCRIPTION

- A. Surface Water Transmission Program (SWTP) consists of major improvements to transmission system to convert from primarily groundwater to surface water in order to comply with the Harris-Galveston Coastal Subsidence District's (HGCSD) regulatory plan. Program includes transmission and distribution of surface water and associated consolidation of groundwater plants in the City.
- B. The project is a combination of water line construction and paving which initiates at intersection of Monroe Road & Airport Boulevard and extends north along Monroe Road to the intersection of Monroe Road and Rockhill Street and thereafter extends along Rockhill Street to the intersection of Rockhill Street and Glen Valley Drive.

1.03 WORK COVERED BY CONTRACT DOCUMENTS

This work will include, but not limited to, the following:

- A. Construction of approximately 7,340 linear feet of 60-inch water line (by a combination of open cut and tunneling), with connections and appurtenances along the proposed alignment through Monroe Road and Rockhill Street from Airport Boulevard to Glen Valley Drive.
- B. Construction of approximately 3,800 linear feet of 16-inch water line, 2,300 linear feet of 12-inch water line, 500 linear feet of 8-inch water line and 10 linear feet of 6-inch water line with connections, and appurtenances along the proposed alignment through Monroe Road and Rockhill Street from Airport Boulevard to Glen Valley Drive. The lines will be constructed primarily by means of trenchless method unless otherwise shown on the Contract document drawings (Drawings) or instructed by the City of Houston (COH) Project Manager (Project Manager). Contractor is responsible for

revision of Traffic Control Plans, if required due to auger pit locations. Proposed 16-inch, 12-inch and 8-inch water lines to be in service prior to abandonment of the existing 12-inch Asbestos Cement (AC) water line and beginning of construction of proposed 60-inch water line.

C. Tunneling operations across the intersection of Monroe Road & Airport Blvd. (from Sta. 1+73.00 to Sta. 3+63.00), and along Rockhill Street, across the City of Houston Ditch No. C165-00-00 (from Sta. 13+40.00 to Sta. 15+55.00) and under the Kinder Morgan pipeline crossing at Sta. 28+76.57 (from Sta. 28+20.00 to Sta. 29+18.00)

1. Unless otherwise approved by the Project Manager, perform tunneling from northern limit of tunnel at Airport Boulevard, and from western end at City of Houston Ditch crossing.
2. Perform tunnel excavation using a Tunnel Boring Machine utilizing full shielding and with closed-face capabilities.
3. Due to anticipated subsurface conditions, limited ability to dewater tunnel excavation will likely exist.
4. Provide specific instrumentation monitoring plan, in accordance with Section 02425(LD) Tunnel Excavation and Primary Liner. Submit to Project Manager for approval the monitoring plan and locations of instrumentation. Plan shall include monitoring of the existing bridge structure over the COH Ditch and any building in the vicinity.
5. Install 60-inch water line in accordance with Section 02517 – Water Line in Tunnels.
6. See Paragraph 1.09 for Coordination of Work.

D. Geological Fault Crossings:

1. The following areas have been identified as geological fault zones. Refer to Phase I Geological Fault Investigation by HVJ Associates, Inc. for additional information regarding the faults:
  - a. Fault 9 crosses Monroe Road north of Airport Boulevard at approximately Sta. 5+50.
  - b. Fault 8 crosses Monroe Road north of Wynlea St. intersection, at approximately Sta. 18+80.
2. For Fault 9, install 60-inch water line within fault zones using steel pipe in accordance with the Drawings. Attach steel survey pipes to water line on each side of fault as shown in the Drawings. Survey pipes will extend to ground surface to allow monitoring of vertical fault movement. Record GPS elevations of survey pipe and incorporate into as-built drawings. Provide Polyurethane lining and coating, in accordance with Specification Section 02527.

3. For Fault 8:

- i. Install 60-inch water line within fault zones using steel pipe in accordance with the Drawings. Place 60-inch steel water line within steel casing by open cut method. Grout annular space between water line and casing pipe as shown in Drawings. See "Fault Crossing Details" sheet in the Drawings for additional information regarding materials, thicknesses, limits, and joint requirements for water line and steel casing.
  - ii. Install 60-inch expansion couplings in vaults on each side of fault zones in accordance with the Drawings to compensate for possible pipe movement. Attach steel survey pipes to water line and casing pipe on each side of fault as shown in the Drawings. Survey pipes will extend to ground surface to allow monitoring of vertical fault movement. Record GPS elevations of survey pipe and incorporate into as-built drawings.
4. Line trench within fault zone using TxDOT DMS 6200 Type 2 geotextile filter fabric. Embed water line and casing pipe using a 1 to 1 mix of TxDOT Item 247 Type A, Grade 2 base material and ASTM C33 bank sand. The material should be compacted to 95 percent of its ASTM D698 maximum dry density at moisture content within  $\pm 2$  percent of optimum. The bedding material should be brought up to at least 24 inches above the crown of the pipe.
5. Compacted select fill should then be used above embedment for a minimum thickness of at least two feet thick to provide an impervious barrier so that surface water does not infiltrate into the pipe trench. The select fill material should be uniform, clean, sandy lean clay/lean clay material with a plasticity index between ten and twenty and at least 50 percent passing a No. 200 sieve. The select fill shall be placed in four inch loose lifts and compacted to 95 percent of its ASTM D698 maximum dry density at moisture content between optimum and three percent above optimum. For trench areas beneath pavement, the top six inches of select fill at the ground surface should be stabilized with at least five percent hydrated lime (by dry weight).

E. FAA:

1. FAA Loading Waterline, Manholes, Manhole Covers: Provide 60-inch Steel Waterline with restrained joints, Precast Manholes, and Manhole Covers which meet the FAA live loading requirements and as per Specification Sections 02082 and 02518, between Sta. 1+44 (Begin) to Sta. 15+00 along Monroe Road. See the Drawings, Details and Specifications for

more information.

2. Re-vegetation: According to Houston Airport Systems, disturbed areas or areas in need of re-vegetation in and around the airport should not be planted with seed mixtures containing millet or any other large-seed producing grass. Sodding should be the only means of restoring vegetation between Sta. 1+44 (Begin) to Sta. 15+00 along Monroe Road. Contractor to use Tifway 419, a hybrid Bermuda grass or approved equivalent, for re-vegetation in this area. See the Drawings, Details, Specifications and Attachment 2 for more information.
- F. Construction of approximately 2,500 linear feet of 24-inch, 135 linear feet of 30-inch, 690 linear feet of 36-inch, and 1,100 linear feet of 42-inch storm sewer with inlets and manholes. It also includes construction of 42-inch RCP outfall to the City of Houston Ditch Unit No. C165-00-00.
  - G. Complete removal and replacement of approximately 3,415 linear feet of existing south bound two-lane concrete pavement with curb and gutter and 535 linear feet of existing north bound one-lane concrete pavement with curb and gutter along Monroe Road from north of Airport Boulevard to north of Rockhill Street, including left turn lanes and 3,600 linear feet of full width of roadway along Rockhill Street from west edge of Monroe Road to east of Glen Valley Drive. Pavement Repair along north bound lanes of Monroe Road from Airport Boulevard to south of I-45 south bound feeder road. Provide at least 7% (as per geotechnical report) of hydrated lime by dry unit weight, in lieu of minimum 5 percent noted in Section 02336 – Lime Stabilized Subgrade. Proof roll subgrade in accordance with TxDOT Item 216, no separate payment for proof rolling.
  - H. Complete removal and replacement of approximately 8,900 linear feet of existing sidewalk and 84 concrete driveways within the project limits. Proposed driveway replacement to extend beyond Right-of-Way to the limits as shown in the drawings. Coordinate with property owner and the Project Manager prior to replacement. See drawings, details and specifications for more information.
  - I. Perform 300 linear feet of slope reconstruction along the City of Houston ditch within the median of Monroe Road.

#### 1.04 DEFINITION

- A. Large Diameter Water Lines: Water Lines 24-inches in diameter and larger. References to large diameter water lines shall apply to pipe, valves and appurtenances 24-inch and larger.



- B. Small Diameter Water Lines: Water Lines 20-inches in diameter and smaller. Unless otherwise noted in the Contract Documents, requirements pertaining to large diameter water lines do not apply to pipe valves and appurtenances 20-inches in diameter and smaller.

**1.05 CASH ALLOWANCES**

- A. Include the following specific Cash Allowances in the Contract Price under provision of Document 00700 - General Conditions, Paragraph 3.11.
1. Street Cut Permit. Allow stipulated sum of \$10,000.00 for Street Cut Permit Application Fee(s) as described in Paragraph 1.11
  2. Floodplain Management Permit Office. Allow stipulated sum of \$3,000 for the cost to obtain floodplain permit from City of Houston for the 60-inch water line.
  3. Power Pole and/or Street Light Pole: Allow stipulated sum of \$58,660.00 for removal and relocation/replacement and re-circuit of power poles and street light poles. Includes poles with combination power pole and street light.

**1.06 INCENTIVE ALLOWANCES**

- A. None

**1.07 CITY FURNISHED PRODUCTS**

- A. Item Furnished by City for Installation and Final Connection by Contractor:
1. None.

**1.08 WORK SEQUENCE**

- A. Prior to beginning construction, survey and photograph parking lots, concrete pads, decorative landscape and gravel ground cover areas to establish pre-existing conditions for purpose of restoring to existing or better conditions after construction.
- B. Perform critical locates per the Contract Drawings within 30 days from Notice to Proceed. Field verify dimensions and conditions before commencing work. Report discrepancies to the Project Manager before commencing work.

Submit documentation of work completion to the Project Manager.

- C. Due to overall project complexity and numerous active utility interface requirements, submit sequence of construction for review by the Project Manager. Proposed sequence of construction shall address proposed method and timing of major construction activities. Refer to Section 01326 – Construction Schedule (Bar Chart) for specific details.
- D. Begin Work on the project from the western limits of the project and work towards east along Rockhill Street to Monroe Road and continue south along Monroe Road to the southern limits of the project. No work that requires a lane closure on Monroe can occur between January 27, 2017 and February 13, 2017. All lanes must be open and free of construction activity during this period of time.
  - 1. Construct the 16" and smaller diameter water lines by trenchless construction method, including site and pavement restoration in relation to the construction of these water lines. Whenever possible, the contractor shall make an effort to locate pits away from existing concrete or asphalt pavement, sidewalks, driveways, fences, culverts, inlets, manholes, power poles, light poles, trees, lawns, landscapes, existing structures and other existing facilities. No pits are allowed within driveways, tree canopies of 6-inches or larger or landscapes, unless otherwise instructed by City Engineer. No separate payment will be made for any non trenchless methods of installation unless included as a bid item in Document 00410-Bid Form.

Any pavement (including wheel chair ramps, pavement curbs, sidewalks, driveways, bikeways, etc.), fences, gates, lawns, irrigation utilities, landscapes, ditches, culverts, inlets, manholes, signs or mail boxes and other improvements that have been disturbed due to 16" and smaller diameter water lines construction shall be replaced with same quality material or better, according to the City Standard Specifications and Details, located at

<http://documents.publicworks.houstontx.gov/document-center/specifications/index.htm>

<http://documents.publicworks.houstontx.gov/document-center/drawings/index.htm>

and the Texas Accessibility Standards. Unless specifically identified as being removed and replaced in the contract drawings and included as a bid item in Document 00410B, the cost incurred shall be included in the Site Restoration bid item per Section 01740 "Site Restoration." Contractor shall bid accordingly.

2. Prior to any 60" water line and pavement construction activity along Monroe (south bound), perform pavement repair along Monroe (north bound) as shown in the drawings. Contractor shall comply with street cut requirements according to the City Infrastructure Design Manual and repair pavement as per City of Houston Detail Drawing No.s 02902-01 & 02 and 02951-01, 02 & 03. Saw cut and match existing pavement and curb at limits of replacement. Coordinate with Project Manager for actual limits of replacement. The estimated quantities are based upon the limits shown on the construction drawings, in reference to the current condition of pavement as observed in the field and are included as a bid item in Document 00410-Bid Form. Schedule the pavement repair work along Monroe (north bound), so as to complete it prior to January 27, 2017.
3. At the southern limits of the project, verify exact location of existing 66" water line (WBS NO. S-000900-0104-4). Remove 13 LF of existing 66" water line and 66" dished head plug, north of Sta. 1+44 as shown on the drawings. Contractor to take precautionary measures to avoid damage or settlement to existing 66" water line and it's appurtenances to remain, during construction. Install and maintain system of instrumentation to detect movement in soil and existing structures including but not limited to the existing Butterfly Valve and Manhole in the vicinity. Make adjustment to line and grade to assure proper tie in to the proposed 60" water line. Provide temporary elliptical dish head plug after construction of proposed 60" water line and connecting to the existing 66" water line at Sta. 1+44. Remove the temporary elliptical dished head plug after successful hydrostatic testing of the proposed 60" water line. The Lay Schedule of the existing 66" water line is included in the contract documents as reference, for removal of 66" water line pipe and proper connection. Coordinate with Project Manager regarding status of removed 66" water line, if to be salvaged or disposed off appropriately.

Incorporate Traffic Control Plan and Traffic Control General Notes as shown in the construction drawings in proposed sequence of Work. Contractor to sequence the work within each phase in a manner to facilitate construction by eliminating conflicts in between various items.

If the butterfly valve proposed at western limits of project has not been procured due to manufacturer lead time, Contractor may stop waterline installation a maximum of 20 LF east of butterfly valve and continue to the next traffic control step to avoid schedule delays. Prior to proceeding to next step, Contractor must temporarily restore site and open lanes to traffic. Upon procurement of valve, Contractor must return to this location to install remaining pipe and valve. No separate payment.

Contractor to provide temporary drainage facilities as necessary at all phases

01110-7

06-27-2005

Addendum No. 1

during construction to maintain positive drainage. No separate pay unless included as a bid item in the Document 00410-Bid Form. Include cost in appropriate utility sections and bid accordingly.

- E. Provide temporary asphalt pavement as shown in the traffic control plans to facilitate traffic movement during construction. No separate pay for additional cut or fill necessary to construct temporary paving.
- F. Completely restore and provide a serviceable pavement section in each traffic control phase prior to performing construction activities in the subsequent traffic control phases. Refer to Traffic Control Plan General Notes for further instruction.
- G. Repair or replace, existing PVC drain lines encountered or disturbed by work. No separate pay item.
- H. Verify with the Project Manager, proposed locations of vent piping prior to installation. Adjust locations as directed. No separate pay. Mount vent piping for air release valves on a single bollard, if directed by the Project Manager.
- I. Existing privately owned fences are in close vicinity of City right-of-way along west side of Monroe Road between Sta. 19+30 to Sta. 20+15, Sta. 22+90 to Sta. 23+60, Sta. 24+70 to Sta. 26+60, Sta. 27+60 to Sta. 29+60, Sta. 33+90 to Sta. 35+60, and along south side of Rockhill Street between Sta. 3+20 to Sta. 7+10. Remove and replace privately owned fences in conflict with construction activities only as approved and directed by the Project Manager. Property Owners must be notified a minimum of two (2) weeks prior to any proposed fence modifications. If approved, remove and replace fences and gates with same quality material or better. See Section 01270 – Measurement and Payment, 01270S – Measurement and Payment supplementary specification for Wooden Fences and Section 02821 – Chain Link Fences and Gates for payment information.

#### 1.09 COORDINATION OF WORK

- A. Schedule the Work with any other contractors of any trade or discipline working adjacent to the project site prior to and during construction. Schedule Work and connection with contractor performing Work for City of Houston Project WBS No. S-000900-0130-4 (Contract 70 C-Proposed 60-inch Water Line from Rockhill Street to Dixie Drive).
- B. If contractor constructing this project, WBS No. S-000900-0129-4 (Contract 70 B) completes Work and is ready to chlorinate and test before contractor constructing project under WBS No. S-000900-0130-4 (Contract 70 C-

Proposed 60-inch Water Line from Rockhill Street to Dixie Drive), then provide dished head plug. Cost for providing dished head plug is incidental to the 60-inch Water Line. If contractor for 70 C has completed work and has already installed dished head plug, then remove dished head plug and make connection to existing 60-inch water line after successful chlorination and hydrostatic testing. Payment to be made under appropriate bid item listed in Document 00410 – Bid Form.

- C. Schedule construction operations with Project Manager, Traffic Management, Maintenance Division, and private utilities.
- D. Coordinate with CenterPoint Energy Street Light Division to schedule the street light rehabilitation and installation. Submit phasing plan to Project Manager for approval.
- E. Water Line Shutdown: Contractor to provide the construction schedule within 30 days of Notice to Proceed, and Project Manager to forward to the following departments: Drinking Water Operations, Infrastructure Planning Branch and Water Engineering. Departments will review the shutdown process and verify current operating conditions support shutdown of existing water line. Project Manager to confirm shutdown schedule with Contractor and City departments 21 days prior to the existing water line shutdown.
- F. Contact METRO regarding facilities and bus routes that may be affected during construction activities.
  - 1. The Contractor shall contact METRO Bus Operations a minimum of seven (7) to ten (10) business days prior to construction changes. The contact information is Carl Taylor, Carl.Taylor@ridemetro.org 713-615-7219 or Shirley Mitchell, Shirley.Mitchell@Ridemetro.org 713-615-7212 or any other designated person at the time of contract.
  - 2. Maintain access to all METRO bus stops. Replace METRO bus sign (stop) and temporary pedestrian pad/shelter along rerouted road for METRO passenger pick-up/drop-off.
  - 3. METRO bus shelter (if any) to be temporarily relocated during construction activities.
  - 4. Evaluate with METRO and the Project Manager about bus turning radius. If required, Project Manager may direct Contractor to install temporary pavement. Payment for temporary pavement and restored site shall be with appropriate bid items contained in Document 00410 – Bid Form.

- G. Contact Houston ISD and Pasadena ISD School facilities that may be affected in the area during construction activities. Coordinate with the school districts in regards to any bus routes that may be affected by construction activities a minimum of 10 working days advance notice.
- H. Harris County Flood Control District (HCFCD) Property Management Department shall be notified in writing at least 48 hours prior to construction, copies of the Preconstruction Notification, the approved plans and all applicable permits are required at this time. (If a non flood control feature is proposed, a copy of the fully executed interlocal agreement for maintenance of the non-flood control feature is also required).
- I. Coordinate with Texas Department of Transportation (TxDOT) prior to any construction activity along Monroe Road. Contact Carlton Allen at (713) 881-3285, 30 days prior to construction activity along Monroe Road to allow for advance warning for motorists through flash messages on dynamic message signs along IH-45.
- J. Schedule testing and inspection of Cathodic protection system and protective coating for pipe, valves, and tanks with City's independent consultant. Contact David Pedersen at 832-395-3833.
- K. FAA Airport Permit: Permit to Determination of no hazard to air navigation for temporary structures expires on 04/22/2016. For the extension of permit coordinate with FAA and E-file application at least 15 days prior to expiration date.
- L. Contact the owners/owners' representatives of the pipeline companies at least two business days prior to excavating within these pipeline easements /right-of-way. Coordinate with the same contacts at the beginning of the project to discuss the schedule for construction activities and duration of work in the vicinity of the pipelines. The contacts must be notified of any changes to the construction schedule. Follow the construction guidelines as outlined in the Letter of No Conflict/Objection obtained for each pipeline and are part of the contract documents. Information on the contacts as provided during design phase are listed below
  - 1. Enterprise Pipeline (6" & 8" Gas) :  
Rebecca Eguia Curry  
Manager, Land-Encroachments  
Email: RECURRY@eprod.com  
Phone: 281-887-3312
  - 2. Kinder Morgan (Copano) Pipeline (6" LPG) :  
James D. Piggott, Jr., P.E.

Senior Project Manager  
Email: James\_Piggott@kindermorgan.com  
Phone: 713-420-4359

Kinder Morgan Missouri City Texas Operations  
Phone: 281-886-1802

3. Nustar Pipeline (12" Gas) :  
Ernie Hooter, P.E.  
Senior Project Engineer  
Email: Ernie.Hooter@nustarenergy.com  
Phone: 361-249-9435

4. Magellan Pipeline (8" Gas) :  
Frank M. Zaidle, P.E.  
Senior Real Estate Representative  
Email: Frank.Zaidle@magellanlp.com  
Phone: 918-574-7769

M. Coordination of the Work: Refer to Section 01312 – Coordination and Meetings.

#### 1.10 CONTRACTOR USE OF PREMISES

- A. Comply with procedures for access to site and Contractor's use of rights-of-way as specified in Section 01145 - Use of Premises
- B. Construction Operations: City's rights-of-way, easements and proposed easements in the vicinity of the HCFCD ditch.
- C. Private Utility Relocations: Pursuant to Section 40-395 of the City of Houston (City) Utility Relocation Ordinance Program (URO), the following private utilities were identified and scheduled for relocation within the scope of the project limits. Based upon the relocation schedules provided by the utility owners, the City anticipates these relocations to be completed by the dates listed below, and unless otherwise stated, clearance of these potential obstructions will be performed by their respective owners. The following is a description of the private utilities identified for relocation within the project limits:

<b>Utility Owner</b>	<b>Type of Facility</b>	<b>Approximate Location</b>	<b>Estimated Clearance Date</b>	<b>Anticipated Effect to Construction</b>
Centerpoint Electric	Power Poles & Wooden Pole w/ Luminary	Monroe Rd. Sta. 19+50 to 37+65	April 2016	None Anticipated. Confirm that relocation has been completed prior to commencement of work
Centerpoint Electric	Power Pole	Rockhill St. 17+18.00	April 2016	None Anticipated. Confirm that relocation has been completed prior to commencement of work
Centerpoint Gas	2" to 4" Gas Lines	Monroe Rd. Sta. 4+00 to 39+50	May 2016	None Anticipated. Confirm that relocation has been completed prior to commencement of work.

The relocation of these facilities is not anticipated to interfere with the Contractors operations, but the Contractor shall develop the project construction schedule and bid accordingly. In the event that the clearance dates are deviated and proven to impact contractor's schedule, Contractor shall notify the construction project manager per Article 7 – Changes in the Work under Document 00700 General Conditions. The Contractor is invited to review all information of potential obstructions currently on file with the Engineer.

- D. Utility Outages and Shutdown: Provide notification to City and private utility companies (when applicable) a minimum of 48 hours, excluding weekends and holidays, in advance of required utility shutdown. Schedule all work as required. Submit for review and approval proposed plan for outages and shutdown minimum of 14 days prior to proposed scheduled outages/shutdown. Conduct coordination meeting with City and other affected parties minimum of seven (7) days prior to proposed outage/shutdown.
- E. Work to be done to lines, grades, elevations, and locations as shown on the Drawings.
- F. Small diameter water lines along Monroe Road and Rockhill Street are in close proximity to the proposed 60-inch water line construction. Use caution during construction of 60-inch water line to minimize impact to the adjoining small diameter water line and if necessary, excavation within 18-inch of the small diameter water line must be accomplished using non mechanized excavation procedure. Protect small diameter water lines from excessive construction loads and vibration, no separate pay item. Include cost in unit price for work in appropriate sections.



- G. Prevent overstress of any structure including bridge over the City of Houston ditch, and any part or member of it, during construction. This applies to existing work and structures affected by operations. Check effect of operations in this regard, and provide temporary supports and connections required to assure safety and stability of both new and existing work and to prevent overstress of any part, no separate pay item. Include cost in unit price for work in appropriate sections.
- H. Contractor to expect damages to the newly built utility service lines (as part of this project) or existing utility service lines (including but not limited to sanitary, water, gas, etc.) to the residences/businesses during construction (more importantly during construction of the proposed 66-inch water line). Regardless of construction type, methods and sequence, contractor must maintain all services active to the residences/businesses during construction and preserve all newly built service/utility lines. In accordance with Document 00700, contractor is solely responsible and has control over construction means, methods, techniques, sequences and procedures in preserving all newly built lines and as well maintaining all services active during construction. Include cost for temporary services as necessary to accommodate construction in unit prices for utility/service construction, unless otherwise noted. All newly built and existing utility/service lines should be repaired/restored or removed and replaced immediately as per the specification 00700, if damaged during construction. No separate pay for preserving, repairing/restoring or removing and replacing utility service lines. Include cost in unit price for work in appropriate sections.
- I. Coordinate activity schedule and extend full cooperation to other contractors who have responsibilities either concurrent with, proceeding or following this Contractor's time along work site. Ensure availability of access, availability of selected portions of this area to others and provide appropriate information for planning purposes to other contractors.
- J. Traffic Control:
  - 1. Traffic control plan responsive to Texas Manual on Uniform Traffic Control Devices (TMUTCD) and sealed by a Registered Professional Engineer is incorporated into Drawings. If traffic control will be implemented without modification to plan provided, submit letter confirming that decision.
  - 2. Traffic control provided is based on assumption there is no conflict with traffic control from separate projects within construction limits. Adjust work sequence as necessary to prevent traffic control conflicts, or submit revised traffic control plans.

3. Maintain vehicular and pedestrian access to adjacent properties throughout Work. No separate pay. Include cost in unit price for work in appropriate sections.
  4. Install and maintain temporary sidewalk along Rockhill. No separate pay, include cost in unit price for work in appropriate sections.
  5. For temporary pavement provide necessary backfill, subgrade, base and surface in accordance with City of Houston Standard specification 02741 and continuously maintain, as directed by the Project Manager.
  6. Do not impede flow in median ditch with temporary pavement.
  7. Modifications to Traffic Control Plan included in Drawings, specific Traffic Control Plan for pavement restoration with drainage, and adjustment in work sequence as necessary to prevent traffic control conflicts, require a submission of a revised traffic control plans sealed by Registered Professional Engineer and conform to TMUTCD at no additional cost. Submit plan to Project Manager for approval.
  8. Refer to Traffic Control Plan General Notes for further instruction.
- K. Work which pertains to any tunneling operation may be allowed 24 hours per day, provided above ground activities do not conflict with provisions of City of Houston Code of Ordinances, Section No. 40-28 and work does not occur on a Sunday or holiday without given instruction in the Drawings or prior written approval. No night work shall occur in residential areas. A partial list of work pertaining to tunneling operation is as follows:
1. Tunnel Excavation and incidental work such as muck removal and hauling, ventilation, lighting, survey control of tunnel line and grade, etc.
  2. Tunnel Primary Liner.
  3. Ground Water Control and Ground Stabilization.
  4. Pipe Installation.
  5. Tunnel Grouting.
- Project Manager will answer all questions where confusion may exist as to whether any such work pertains to tunneling operation.
- L. Implement groundwater control methods, while maintaining accessibility to driveways and cross streets.

- M. Maintain local driveway access to residential and commercial properties adjacent to work areas. Provide temporary driveway access to driveways in accordance with Section 01555 – Traffic Control and Regulation and Section 01145 – Use of Premises. Coordinate with business owners and residents.
- N. City's Utility Maintenance Division is not bound to assist the Contractor in locating existing utilities during construction. Contractor must verify location of existing utility lines prior to commencement of pipe laying operations.
- O. Employing multiple and separate crews during construction is allowed, as approved by the Project Manager, and if doesn't conflict with traffic control plans or exceed minimum restoration limits for water line work.
- P. Restore damaged areas as per Section 02922 – Sodding.
- Q. Field Office: A Field Office is required on this project. See Section 01520 – Temporary Field Office.
- R. Protect existing street lights and power poles along project limits. Support as required to accomplish the Work. Reestablish power to lights within 24 hours should power be disrupted. No Separate pay item. Include cost in unit price for work in appropriate sections
- S. All mail boxes, if necessary, should be temporarily relocated and restored. No separate pay item. Include cost in unit price for work in appropriate sections.
- T. Install and maintain Project Identification Sign in accordance with the Section 01580. No Separate pay, include cost of such work in the contract price listed for Mobilization.

#### 1.11 STREET CUT ORDINANCE

- A. Excavations on or under pavement in the City's right-of-way must have a permit. Comply with City of Houston, Texas Ordinance No. 2000-1115, an ordinance amending Chapter 40 of the Code of Ordinances, Houston, Texas, relating to excavating in the Public right-of-way and comply with amendments provided by Texas Ordinance No. 2006-0595 including the following fee schedule:

Schedule of Permit Application Fees at the time of design:\*

Initial Application Fee:

01110-15  
06-27-2005

Addendum No. 1

Tunneling, Jacking and Boring only	\$150.00
All other Methods of Excavation	\$200.00

Permit Extension Application Fee:	
Other Than Steel Plate Temporary Surface	\$25.00
Steel Plate Temporary Surface	\$50.00
Data Entry Fee for Non-Electronic Submission (per application):	\$50.00

\*All fees/charges are subject to change and non-refundable

Comply with the latest edition of street cut "New Pavement Repair and Pavement Replacement details".

Contractor shall comply with requirements from Chapter 12 of the City of Houston's Infrastructure Design Manual (latest edition), entitled Street Cut Requirements".

- B. The bid items for the cost of street cut pavement repair and replacement identified on the drawings are included in the Bid Form Part B (Document 00410 B).
- C. Obtain all required permits and signs prior to performing any methods of construction involving street excavation in the existing pavement.

#### 1.12 WARRANTY

- A. Comply with warranty requirements in accordance with Document 00700 – General Conditions.

#### 1.13 INTERPRETATION OF CONFLICTS

- A. Should conflicts occur in Contract Documents, request interpretation before proceeding with the Work. Such requests shall first be preceded by a diligent investigation into Contract Documents. Contain evidence of such investigation in requests for interpretation.

#### 1.14 GENERAL CONSTRUCTION NOTES

- A. Notify the Utility Coordinating Committee at 1-800-669-8344 or (713) 223-4567, and the City of Houston Department of Public Works and Engineering via fax at (832) 395-4424, at least 48 hours prior to commencement of work.

- B. Field verify existing facilities shown on the drawings by whatever means necessary (metal detection, probes, excavation, survey, others) prior to excavation for proposed utilities. No separate pay item. Include cost in unit price for work in appropriate sections.
- C. Call the Traffic Management and Maintenance Division of the City of Houston Public Works and Engineering Department when work is scheduled near signal conduits within the City of Houston (832) 395-3000. Call at least five working days in advance.
- D. These plans and the surveys upon which they are based are tied into the official City of Houston survey system in compliance with ordinance No. 69-1978. City of Houston survey markers and monuments referenced have been included in this plan set.
- E. Comply with OSHA Regulations and State of Texas laws concerning excavation, trenching and shoring as specified in City of Houston Ordinance No. 87-1457.
- F. Conduct construction operation under this contract in conformance with the erosion control practices described in Document 01410 "TPDES Requirements" and Document 01570 "Storm Water Pollution Control" and the Storm Water Pollution Prevention Plans included in the construction drawings. Work identified in this project falls under Large Construction Activity with area disturbed to be one or more acres but less than five acres. TPDES requirements applicable to Large Construction Activity will apply.
- G. Any pavement (such as wheel chair ramps, pavement curbs, sidewalks, driveways, bikeways, etc.), fences, gates, lawns, irrigation utilities, landscapes, culverts, inlets, manholes, signs or mail boxes and other improvements that have been disturbed due to utility construction shall be replaced with same quality material or better, according to the City of Houston standard specifications. Contractors are required to bid accordingly.

#### 1.15 EXISTING UTILITIES

- A. Underground utilities exist in the vicinity of this project. While every effort has been made to show locations for existing utilities, they are approximate and other utilities may exist in the vicinity of this project, which are not shown on these plans. The location and grades of existing utilities are based on as-built information. Field verify location prior to commencing construction.
- B. Public and private utility lines and customer service lines may exist that are not shown on the Contract/ construction drawings. Locate, maintain and

protect the integrity of these lines. Hand excavation may be required. Anticipate such service lines exist and repair them if damaged during construction. No separate pay will be made for repairs. Include cost in unit price for work in appropriate sections.

- C. Coordinate with the proper utility company to relocate or divert any utility in conflict with proposed construction so as not to disrupt service of same. Restore relocated or diverted utility to its original condition and location upon completion of construction.
- D. Do not interrupt existing water service. Construct proposed water lines and transfer service per City of Houston requirements prior to the commencement of any underground construction that may interfere with existing water service.
- E. Maintain existing water service and sanitary sewer service within construction area until construction of the new system is complete.
- F. Verify sizes of water meters found in field.

#### 1.16 WATER LINES

- A. This project shall be built by means of open-cut, tunneling and any other trenchless method allowed by the specification and as noted on the drawings.
- B. Water lines shall be constructed in accordance with current City of Houston specifications for large diameter water lines.
- C. All utilities present on these drawings are shown at approximate locations based on the best available information. The contractor shall field determine the exact locations prior to commencing construction. Protect and support existing utilities and structures along the alignment as necessary for construction. He or she shall be fully responsible for any and all damages caused by his or her failure to exactly locate and maintain these underground utilities, at no additional cost to the City of Houston.
- D. Small Diameter Water Lines
  - 1. Trenchless construction methods will primarily be used for water line construction unless otherwise shown on the construction drawings and project manual or otherwise instructed by the City Engineer. All auger pits and locations for appurtenances (valves, bends, Tees, TS&Vs, etc.) are anticipated to be in open cut. No separate pay for open cut areas, contractor to include the cost in the linear feet rate for water line by trenchless method.

2. Conduct all construction operation under this contract in conformance with the erosion control practices described in Document 01410 "TPDES Requirements" and Document 01570 "Storm Water Pollution Control" and the Storm Water Pollution Prevention Plans included in the construction drawings. Work identified in this project falls under Small Construction Activity with area disturbed to be one or more acres but less than five acres. TPDES requirements applicable to Small Construction Activity will apply.
3. Any pavement (including wheel chair ramps, pavement curbs, sidewalks, driveways, bikeways, etc.), fences, gates, lawns, irrigation utilities, landscapes, ditches, culverts, inlets, manholes, signs or mail boxes and other improvements that have been disturbed due to utility construction shall be replaced with same quality material or better, according to City of Houston standard specifications. No separate pay for any of such items if not called out in the design drawing or included as a bid item in Document 00410-Bid Form. Cost to be included in appropriate utility or paving sections and bid accordingly.
4. After abandoning the existing water line and transferring services to the proposed water line, the Contractor shall contact City of Houston, Drinking Water Operations Branch at 832-395-3800 for retrieving the automatic blow off valve assembly.

**1.17 STORM SEWER**

- A. Maintain adequate drainage during construction and restore drainage ditch or structure disturbed during construction to satisfaction of owning authority. Construction storm runoff shall comply with final draft of the Storm Water Management Handbook for construction activities, as prepared by Harris County, HCFCD and the City of Houston in compliance with NPDES requirements.
- B. During any storm sewer and/or lead replacement, pull to the last full joint.
- C. Remove siltation in existing and proposed storm sewer systems (if necessary) that result from construction activities associated with project.
- D. Existing improvements/conditions associated with culverts, wing-walls, headwalls and other end treatments, shall be maintained, if not shown on the Drawings to be removed, or replaced to equal or better conditions including quality of materials.

- E. If applicable, all construction work related to storm sewer outfalls, riprap, etc. within HCFCD right-of-way will comply with HCFCD standard details and specifications.
- F. All drainage lateral pipes exiting private properties must be protected, repaired or restored as necessary and connected to the new drainage ditches/systems. No separate pay, include cost in unit price for work in appropriate sections.

**1.18 SANITARY SEWER**

- A. The contractor is fully responsible for damages to the existing sanitary sewer facilities as a result of this project. Construct sanitary sewers in compliance with the latest City specifications for sewer construction, and tested as specified in the City test procedure for either liquid or air, including amendments and revisions thereto. Place embedment and backfill for sanitary sewers in accordance with City of Houston standard drawing unless otherwise noted.
- B. Maintain service to all sewers during construction. Locate sanitary sewer service laterals affected by construction prior to water line construction. City does not warranty the location or number or any sanitary leads shown in plans.
- C. If a damaged sanitary sewer line is being replaced as a result of this construction, transfer of service stubs from the existing to the proposed sanitary sewer must be included. Remove and replace damaged stubs to right-of-way line, as determined by the Project Manager.
- D. In accordance with the Section 01506, contractor to provide continuous sewer services to the users during removal and replacement of the sanitary line services, if any. No separate pay item. Include cost in unit price for work in appropriate sections.

**1.19 PAVEMENT REPLACEMENT**

- A. Drawings identify pavement to be removed and replaced.
- B. Contractor's Trench Safety System (reference Section 02260), special shoring (reference Section 02317, 1.08, 3.04D, 3.05F, H & I), and means and methods shall protect adjacent lanes of pavement that are not scheduled for removal and replacement. Contractor assumes the risk for damaged pavement and, unless otherwise directed by the City, the Contractor shall remove and replace the damaged pavement in accordance with Section 02951 and the Street Cut Ordinance at no additional cost to the City. Damage includes but is not limited to pavement cracks, chipped or broken pavement,



and voids under adjacent pavement that is to remain. City may also assess additional costs to the Contractor related to the damaged pavement such as City laboratory testing and inspection.

- C. Where work requires cutting existing pavement, provide positive shoring extending a minimum of 6-inches above pavement surface.
- D. Unless otherwise directed by the City, provide full-depth saw-cut 2-inch maximum away from pavement construction joints (ex., deformed metal joints, tooled joints, partially sawcut joints, etc.). Saw cut distance from joint shall be minimum necessary for a clean straight edge, and if the joint is at the crown the saw cut shall be as close to the crown as possible.
- E. Dowels at existing expansion joints shall be saw cut to eliminate possible damage to adjacent pavement that is scheduled to remain. The cost for this saw cut is incidental to the pavement removal and disposal pay item(s).
- F. If existing pavement thickness is less than 7-inches thick, then dowels will be deleted and the Non Doweled Joint detail will be used instead, unless directed otherwise by the City.
- G. Pavement that is scheduled to be removed and replaced shall be removed no earlier than fourteen (14) days prior to excavating to install new utilities and/or pavement.

#### 1.20 STORM WATER POLLUTION PREVENTION PLAN

- A. Storm Water Pollution Prevention Plan for this project is governed by Section 01410 TPDES Requirements, Document 01570 "Storm Water Pollution Control" and the layouts provided in the construction drawings. Comply with Storm Water Pollution Prevention Plan as detailed in construction documents.

#### 1.21 ALTERNATE CONSTRUCTION METHODS

- A. Alternate construction methods will be allowed in accordance with applicable details and specifications in Contract Documents at no additional cost to City of Houston provided City will receive substantial benefit from alternate construction method(s). Contractor accepts responsibility for all additional cost of geotechnical investigations and incidental items, including any re-design that may be necessary. Submit following for review by City Engineer prior to commencement of any construction activity if such alternate construction methods are to be considered. All modifications as listed below must be signed and sealed by a Licensed Professional Engineer registered in State of

Texas prior to submittal to City Engineer.

1. Revisions to horizontal or vertical alignment.
2. Revisions to access manhole details, if applicable.
3. Revisions to line valve and operator manhole details, if applicable.
4. Revisions to vacuum relief valve vault details, if applicable.
5. Revisions to cathodic protection system, if applicable.
6. Proposed construction method and detailed plan of approach.
7. Location of access shafts, if applicable.
8. Proposed traffic control plan.
9. Revisions to material specifications.
10. Impact of revised alignment on hydraulic surge potential on line segment in question and all adjacent line segments, existing or proposed.

Failure of agreement between Contractor and Project Manager over proposed alternate construction methods would require construction to vertical and horizontal alignment, and details as per original contract documents.

#### 1.22 ADDITIONAL CONDITIONS FOR SUBSTANTIAL COMPLETION

A. In addition to requirements outlined in Document 00700 – General Conditions, for Contractor to be substantially complete with the Work and call for inspection, the Project Manager to confirm the following conditions have been met or completed:

1. All pay items complete.
2. All testing shall be completed and accepted by Project Manager.
3. Notify Project Manager to complete Texas Department of Licensing and Regulation Post Construction Inspection of pedestrian elements for Texas Accessibility Standards, as appropriate.
4. All safety-related systems and equipment shall be installed, accepted by manufacturer's representative and approved for use.
5. All safety related work including pavement striping, signing, and signalization to be complete.
6. No additional condition described in Paragraph 1.09 may be included in Contractor's punch list.

#### 1.23 SOIL CONDITIONS & ENVIRONMENTAL SITE ASSESSMENTS (ESA)

A. Bidder(s) must consider the soil conditions and findings provided in the Geotechnical, Phase I ESA, and Phase I Fault Investigation Reports. These reports have been provided along with Drawings and Project Manual.

**1.24 POTENTIALLY PETROLEUM CONTAMINATED AREAS (PPCA)**

- A. No PPCA was identified within project limits. Refer to Phase I ESA Report prepared by HVJ Associates, Inc. for additional Information.

**1.25 SAFETY SYSTEMS**

- A. The plans and any attendant drawings (including shop drawings, as built drawings or record drawings), addenda, change orders and specifications, prepared by Lockwood, Andrews & Newnam, Inc., or Kuo & Associates, Inc. do not extend to or include designs or systems pertaining to the safety of the construction contractor or its employees, agents, or representatives in their performance of the work. The seal of Lockwood, Andrews and Newnam's, and Kuo & Associates registered/licensed professional engineers hereon does not extend to any such safety systems that may now or hereafter be incorporated in the Drawings. Contractor shall prepare or obtain the appropriate safety systems, including the plans and specifications required by House Bill 662 and 665 enacted by the Texas Legislature.

**1.26 UTILITY SERVICE LINES**

- A. Public utility service lines (water and sanitary sewer) not shown on the Drawings. Anticipate such service lines exist and repair if damaged during construction. No separate pay will be made for repairs. Include cost in unit price for work in appropriate sections.

**1.27 CENTERPOINT ENERGY ELECTRICAL FACILITIES**

- A. Overhead lines may exist on property. We have not attempted to mark those lines since they are clearly visible. All lines should be located prior to construction. Texas law, section 752, health & safety code, forbids all activities in which persons or things may come within six (6) feet of live overhead high voltage lines. Parties responsible for works, including contractors, are legally responsible for safety of construction workers under this law. This law carries both criminal and civil liability. To arrange for lines to be turned off or removed call Centerpoint Energy at (713) 207-2222.
- B. Location of CenterPoint Energy electrical facilities, are approximate and have not been verified by actual field check

- C. Hand dig within one (1) foot of CenterPoint Energy underground electrical facilities.
- D. Overhead lines exist on and adjacent to the project site, which may be live during the construction period. Facilitate work so as not to interrupt services unless permitted by CenterPoint Energy.
- E. Exercise caution when working in the vicinity of CenterPoint Energy electrical cable, underground wiring and overhead lines.
- F. When excavation within 5 feet and beneath a depth of 3 feet below existing grade of a utility pole or anchor to which CenterPoint Energy facilities are attached, CenterPoint Energy will secure or brace these poles and anchor prior to excavation. The cost of CenterPoint Energy's efforts is incidental. "No separate pay item"

#### 1.28 CENTERPOINT ENERGY UNDERGROUND GAS FACILITIES

- A. Locations of CenterPoint Energy main lines (to include Unit Gas Transmission and/or Industrial Gas Supply Corporation where applicable) are shown in an approximate location only. Service lines are not usually shown. The contractor shall contact the Utility Coordinating Committee at (713) 223-4567 or 1-800-669-8344 a minimum of 48 hours prior to construction to have main and service lines field located.
- B. When CenterPoint Energy pipeline markings are not visible, call (713) 967-8037 (7:00 am to 4:30 pm) for status of line location request before excavation begins.
- C. When excavating within eighteen inches (18") of the indicated location of CenterPoint Energy facilities, all excavation must be accomplished using non-mechanized excavation procedures.
- D. When CenterPoint Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping. No separate pay.
- E. The contractor is fully responsible for any damages caused by his failure to exactly locate and preserve these underground facilities.
- F. All gas facilities are the property of CenterPoint Energy, unless otherwise noted.
- G. Coordinate with the CenterPoint Energy for relocation of their facilities called

out as potential conflicts with the proposed utilities prior to beginning of construction of the proposed utilities.

1.29 AT&T / SWBT

- A. Locations of AT&T Texas/SWBT facilities are shown in an approximate way only. Determine exact location before commencing work. Contractor responsible for any damages and all damages which might be occasioned by failure to exactly locate and preserve these underground utilities.
- B. Call 1-800-344-8377 a minimum of 48 hours prior to construction to have underground lines field located.
- C. When excavation within eighteen inches (18") of indicated location of AT&T Texas/SWBT facilities, excavations must be accomplished by using non-mechanized excavation procedures. When boring or augering, expose AT&T Texas/SWBT facilities.
- D. When AT&T Texas/SWBT facilities are exposed, provide support to prevent damage to conduit ducts or cables. When excavating near telephone poles, contractor shall brace pole for support. No separate pay.
- E. Presence or absence of AT&T Texas/SWBT underground conduit facilities shown on Drawings does not imply that there are no buried cable facilities or other cables in the area.
- F. Contact AT&T Texas Damage Prevention Manager Mr. Roosevelt Lee Jr. at (713) 567-4552, regarding questions about boring or excavating near AT&T Texas/SWBT facilities.

1.30 TREE PROTECTION

- A. Notify City of Houston Parks and Recreation Department representative Mr. Dale Temple, City Forester, at (832) 395-2205, at least two (2) weeks in advance of clearing, cutting, pruning, or planting any tree.
- B. Adhere to the requirements of Specification Section 01562 - Tree and Plant Protection, Section 02915 - Tree Planting, and Tree Protection Plan provided in Contract Drawings. Protect existing trees, landscaping, and sprinkler systems. Repair damaged sprinkler systems and replace damaged landscaping to original condition or better. No separate payment.
- C. Live trees removed must be replaced with equivalent size in inches or with

multiple trees whose cumulative size equates to the size of the tree being replaced. Tree replacement includes cost of new tree, installation, watering and warranty per Specification Section 02915, at no additional cost.

## PART 2 PRODUCTS

### 2.01 TYPE OF PIPE FOR CONSTRUCTION OF WATER LINE

- A. Drawings have been prepared for large diameter water line on basis of Prestressed Concrete Cylinder Pipe (PCCP) except where specific pipe material is identified. Certain details pertaining to all types of pipe have been included when a specific difference exists. Include costs associated with changes in installation and construction, tie-ins, valves, vaults, and other appurtenances to accommodate alternate pipe in unit cost of water line construction.
- B. Only one type of pipe material may be used where material alternates are allowed. When adjoining proposed large diameter water line to existing large diameter water line of different pipe material and/or coating, provide a flanged connection insulating kit, and isolation test station, unless otherwise approved by Project Manager. Specifications and design criteria have been provided for these types of pipe. Contractor is responsible to ensure type of pipe selected and resulting methods and means complies with requirements and limitations set forth herein and on the Drawings including traffic control.
- C. Unless specifically identified on the Drawings, types of materials used are Contractor's option. Manufacturer and subcontractor selection are within Contractor's control and will not warrant time extensions due to failure to produce required deliverables within Contract Time. Extension of Contract Time due to non-delivery of Contractor's choice of pipe material, which affects Contractor's schedule, will not be allowed. Submit pipe material and other critical submittals in a timely manner to allow sufficient review time by the Project Manager and to maintain construction schedule.
- D. Call outs for bends and fittings are not identified on the Drawings in profile view. Provide bends and fittings as required to comply with invert elevations shown in profile view of the Drawings.
- E. Clearly identify different pipe classes of the same pipe material using colored concrete or similar marking as approved by the Project Manager.
- F. Provide electrical isolation when adjoining to pipe with different material or coating. Coating on the welded restrained portions of the piping shall be

identical to the coating on the adjoining pipe sections.

- G. No separate payment for restrained or welded joints for large diameter water lines. Include cost in unit price for work in appropriate sections.

**PART 3 EXECUTION (Not Used)**

**END OF SECTION**

Section 01270S

MEASUREMENT AND PAYMENT

*The following supplement modifies Specification Section 01270 – Measurement and Payment. Where a portion of the Specification is modified or deleted by this Supplementary Specification, the unaltered portions of the Specification shall remain in effect.*

Insert the following paragraph:

**1.08 MEASUREMENT AND PAYMENT FOR PROJECT SPECIFIC ITEMS.**

**A. 60-INCH WATER LINE**

1. Pay Item No. 1 – “Steel survey pipe”. Payment will be on a unit price for each Steel Survey Pipe. Payment includes labor, equipment and materials necessary to complete installation of Steel Survey Pipe in accordance with specification section 02511 & 02518 and in accordance with Drawings and Details. Payment includes providing elevations on the pipe from Steel Survey Pipe tied to the same coordinate system and monument as the project drawings after pavement construction and before substantial walk through.
2. Pay Item No. 2– “60-inch diameter steel water Line at fault crossing, including 78-inch steel Casing, expansion joints, vaults, and survey pipe (Sta. 16+81 to Sta. 20+79).” Payment for 60-inch steel water line at fault crossing is on a Lump Sum basis. Payment includes labor, equipment, and materials necessary for complete open cut installation of 60-inch water line at fault crossing from Sta. 16+81 to Sta. 20+79. Payment includes complete installation of 60-inch steel water line, 78-inch steel casing, expansion joints, concrete vaults, and survey pipes in accordance with Drawings and Section 01110 – Summary of Work.
3. Pay Item No. 3 - “Metal guard beam fence” –Payment for this item will be based on the linear feet of fence installed. The price is full compensation for materials, hauling, erection, setting posts in concrete, blocks, diving posts, excavating, backfilling, equipment, labor, tools and incidentals. No separate pay item for terminal anchor section or transition section, include these incidentals to this bid item.
4. Pay Item No. 4 – “Remove and replace Airport special signs” – Payment will be on a unit price to remove and replace each sign. Payment includes labor, equipment, and materials necessary to remove existing Rental Car/Airport Signs and foundation at Sta. 10+04.85 and 12+71.95 and install back the signs more or less at the same locations.



5. Pay Item No. 5 – “Remove and replace private wooden fence”. Payment for this item will be based on linear feet of removal and replacement of the existing fence. Cost for removal of existing fence will be incidental to this bid item. No separate pay for any coordination and obtaining right-of-entry from the property owners, providing temporary fence (if needed), insurance (if needed), etc., consider cost of those incidental to this bid item.
6. Pay Item No. 6– “Demobilize/Remobilize.” Payment is considered complete compensation if directed by project manager to discontinue work and return on later date. The direction to remobilize shall be given within the original contract time; however, contract time will be suspended during the time demobilized. Payment is on a unit price for each “Demobilize/Remobilize” and includes, but not limited to the following:
  - i. Remove equipment, materials, waste products, temporary facilities, storage boxes, and other resources from site.
  - ii. Temporary backfill of excavation. Backfill shall comply with applicable specifications, including type of materials and compaction requirements.
  - iii. Reopen roads, curbs, driveways, sidewalks and handicap ramps to the public. Temporary restoration measures shall comply with applicable Federal, State and City regulatory requirements. Temporary restoration shall include but not be limited to temporary asphalt, pavement striping, traffic control signage and street signage.
  - iv. Put back into service public and private utilities, including private irrigation system.
  - v. Remove temporary traffic control from project site area.
  - vi. Temporarily regrade disturbed areas behind curbs and sidewalks temporarily regarded to drain properly temporarily restore with sod grass. These areas must be cleaned of debris, swept, scrubbed and washed.
7. Pay Item No. 7 – “Tifway 419 Sodding”. Payment will be based on square yard of recommended sod installed within the future limits of Hobby Airport. Payment includes labor, equipment and materials necessary to complete installation of Sodding in accordance with specification section 02922 and in accordance with Drawings and Section 01110 – Summary of Work

END OF SUPPLEMENT

Approved by:



Sonny Do, P.E.  
Acting Assistant Director  
Water Engineering Section  
Engineering and Construction Division

12/29/15  
Date